General Examination Regulations for the Bachelor’s degree programmes in Mathematics, Industrial Mathematics and Economics and Mathematics as well as the Master’s degree programmes in Mathematics, Computational and Applied Mathematics and Economics and Mathematics at the Faculty of Sciences of Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) – ABMPOMathe/NatFak –
Dated 11 March 2015

amended by statutes of 2 March 2017

Based on Section 13 (1) (2), Section 43 (5), Section 61 (2) (1) of the Bavarian Higher Education Act (Bayerisches Hochschulgesetz, BayHSchG), FAU enacts the following examination regulations:

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Part I: General Provisions

Section 1 Scope, Purpose of the Bachelor’s and Master’s Examination

(1) These examination regulations govern the examinations for the Bachelor's degree programmes in Mathematics, Industrial Mathematics and Economics and Mathematics and the Master's degree programmes in Mathematics, Computational and Applied Mathematics and Economics and Mathematics leading to the degrees Bachelor of Science and Master of Science. They are supplemented by the degree programme and examination regulations.

(2) The Bachelor of Science is an undergraduate degree that qualifies the graduate for professional work. The purpose of the Bachelor’s examination is to assess whether students:
- have acquired fundamental knowledge as well as in-depth technical and methodical understanding of the examined subjects
- have the ability to employ scientific methods and knowledge independently
- are prepared for the transition to professional practice.

(3) The Master of Science is a postgraduate degree that qualifies graduates for further research as well as professional work. The Master’s examination serves to determine whether students:
- have acquired in-depth knowledge of fundamental concepts and research findings in the subjects of their Master's degree programme
- are capable of working independently according to scientific methods and of developing these further
- are prepared for professional practice.

Section 2 Degrees

(1) Passing the examinations results in the following degrees, depending on the type of degree programme:
1. The degree of Bachelor of Science (abbreviation: BSc) for passing the Bachelor’s examination.
2. The degree of Master of Science (abbreviation: MSc) for passing the Master’s examination.

(2) The degree may also be used with the addition ‘(FAU Erlangen-Nürnberg)’.

Section 3 Structure of the Bachelor’s Degree Programme, Standard Duration of Studies, Teaching and Examination Language, Start of Degree Programme
(1) 1Students take a Grundlagen- und Orientierungsprüfung (GOP) covering the foundations of the Bachelor’s degree programme by the end of the second semester. 2The Bachelor’s degree programme includes a four-semester foundation phase worth 120 ECTS credits. 3The subsequent part of the Bachelor’s degree programme until the end of the standard duration of study consists of the specialisation phase lasting two semesters and including examinations worth 60 ECTS credits. 4To complete the programme successfully, students shall achieve 180 ECTS credits, which include all required module examinations and the Bachelor’s thesis module.

(2) The standard duration of a Bachelor’s degree programme including all examinations is six semesters.

(3) 1The teaching and examination language in the Bachelor’s degree programme is German. 2Individual modules may be taught and assessed in English. 3Further details are stipulated in the module handbook. 4In any case of uncertainty, the examination language shall be the same as the teaching language.

(4) The degree programme shall begin in the winter semester.

Section 4 Structure of the Master’s Degree Programme, Standard Duration of Studies, Teaching and Examination Language, Start of Degree Programme
(1) The Master’s degree programme builds on the contents of the Bachelor’s programme; it is more research-oriented.

(2) 1The Master’s degree programme shall have a duration of three semesters plus one semester for working on the Master’s thesis. 2To complete the programme successfully, students shall achieve 120 ECTS credits, which include all required module examinations and the Master’s thesis module.

(3) The standard duration of the Master’s degree programme is four semesters.

(4) If students have the choice between several modules, they shall choose modules that may be studied without overlap within the context of an individual study agreement after consulting a study or subject advisor.

(5) The teaching and examination language shall be governed by the relevant degree programme and examination regulations.

(6) The Master’s degree programme may be started in the winter semester or in the summer semester.
Section 5 ECTS Credits

(1) ¹The degree programmes and examinations are based on the European Credit Transfer and Accumulation System (ECTS). ²30 ECTS credits are allocated per semester. ³One ECTS credit corresponds to 30 hours of work.

(2) ¹ECTS credits serve as a system to categorise, calculate and confirm the amount of work a student has invested. ²They are a quantitative indicator of a student’s workload.

Section 6 Modules and Credits, Voluntary Intermediate Examinations

(1) ¹The degree programme consists of modules for which students are awarded ECTS credits. ²One module is a chronologically connected and self-contained teaching and learning unit, the content of which can be tested in an examination.

(2) ¹The modules shall be completed with a module examination. ²This examination shall as a rule consist of one examination achievement or one course achievement. ³In exceptional cases, this examination can also consist of several partial examinations or parts of examinations or a combination of examination and course achievements if the subject warrants it. ⁴ECTS credits shall only be given for successful participation in modules that can be verified in an individual, separately identifiable performance in a module examination. ⁵Module examinations are conducted during the lecture period or following the last lecture/seminar of a module before the start of the next semester’s lecture period.

(3) ¹Examinations (examination achievements and course achievements) measure the student’s performance. ²They may be written, oral, electronic, or in a different form. ³Examination achievements are graded. ⁴The assessment of course achievements may be limited to determining whether the student has passed or not.

(4) ¹In addition to the module examinations, voluntary intermediate examinations (e.g. tutorial achievements, short tests or homework assignments) may be offered during teaching units as a way of measuring the standard of performance. ²More detailed information, including the number, types and scope of these examinations, is given in the module handbook. ³An intermediate examination achievement may improve the grade for a passed module examination or partial examination by a maximum of 0.7. ⁴If a student chooses to use the option detailed in sentence 1, these results shall be taken into account when determining the grade for the module.

(5) Enrolment in the relevant degree programme at FAU is a requirement for participation in module examinations according to paragraph (2)(1).

Section 7 Compulsory Attendance

(1) ¹For teaching units, which are marked accordingly in the respective module description, in which the qualification goal can only be achieved by regular attendance, compulsory attendance can be made a requirement for admission to the module examination or for obtaining the course achievement. ²If attendance of the individual student is required for all participants to obtain the subject-specific skills, if the individual student obtaining such skills depends on the attendance of the other participants, or if subject-specific skills can only be obtained by being present at a particular place, or if participation is required for safety reasons, it is permissible to introduce an obligation to attend.
(2) Regular attendance is defined as missing no more than 15% of instruction time in any given teaching unit. If between 15% and 30% of instruction time has been missed, the lecturer can offer the student the option to obtain a skills-orientated substitute achievement fulfilling the requirement of regular attendance. If no such substitute achievements are offered or the substitute achievements offered are not obtained by the student, attendance is not considered to have been regular. If more than 30% of all instruction time has been missed, the teaching unit must be taken again. Any positions after the decimal point in the percentage of instruction time missed shall be rounded for the benefit of the student.

(3) Paragraph 2 notwithstanding, in the context of excursions, placements and block seminars, attendance is only considered to have been regular if all teaching units have been attended. Appropriate substitute achievements fulfilling the requirement of regular attendance shall be offered in the case of credibly shown periods of absence due to reasons beyond the student’s control of up to and including 15% of instruction time. If more than 15% of instruction time has been missed, the teaching unit must be taken again. Any positions after the decimal point in the percentage of instruction time missed shall be rounded for the benefit of the student.

(4) Attendance is checked in the individual teaching units by means of an attendance list in which students must enter their name and signature.

Section 8 Examination Deadlines, Failure to Observe Deadlines

(1) Examinations shall be sat in such a timely manner as to allow the student to obtain the ECTS credits specified in the degree programme and examination regulations for the GOP and the Bachelor’s or Master’s examination by the scheduled deadline. Deadlines shall be the second semester of the degree programme for the GOP and the last semester of the respective standard duration for the Bachelor’s or Master’s examination. The deadlines according to sentence 2 may be exceeded by the following periods (extended deadline):
1. GOP – by one semester
2. Bachelor’s examination – by two semesters
3. Master’s examination – by two semesters.
4. An examination shall be considered to have been sat and failed at the final attempt if the required number of ECTS credits stipulated in the degree programme and examination regulations was not obtained within the extended deadline according to Sentence 3, unless the reasons for this are beyond the student’s control.

(2) The deadline set forth in (1) shall be extended by claiming the periods of protection according to Sections 3, 4, 6 and 8 of the current version of the Maternity Protection Act (Mutterschutzgesetz – MuSchG) in the version published on 20 June 2002 (BGBl I S. 2318 [German Federal Law Gazette I p.2318]), according to the periods set forth in the current version of the Parental Allowance and Parental Leave Act (Bundeseltern- und Elternzeitgesetz – BEEG) of 5 December 2006 (BGBl I S. 2748 [German Federal Law Gazette I p.2748]), and according to periods of time spent providing care in the sense of Section 7 (3) of the current version of the Caregiver Leave Act (Pflegezeitgesetz – PflegeZG) of 28 May 2008 (BGBl I S. 874, 896 [German Federal Law Gazette I p. 874, 896]) for a close family member who requires care in the sense of the current version of SGB XI (German Social Security Code XI) of 26 May 1994 (BGBl I S. 1014, 1015 [German Federal Law Gazette I p. 1014, 1015]).
The reasons according to (1)(4) and (2) shall be explained in writing and shown credibly to the Examinations Office without delay. If the reasons are acknowledged, the examination shall be sat at the soonest possible time; previous examination and course achievements shall be accredited. In case of an incapability to sit the examination occurring before or during the examination, the examiner shall be notified immediately; in cases where the student is unable to sit an examination due to illness, an official doctor’s certificate shall be submitted at the same time. The Examinations Committee may require the student to submit a certificate from an official medical examiner (vertrauensärztliches Attest).

**Section 9 Examinations Committee**

1. An Examinations Committee consisting of five members of the Department of Mathematics shall organise the examinations. The chairperson, their deputy and the further members of the Examinations Committee shall be professors at the Department of Mathematics appointed by the Faculty Council based on the Department’s recommendation. The term of office of the members shall be two years. Re-election shall be permitted.

2. The chairperson may transfer tasks within their responsibility to a member of the Examinations Committee.

3. The Examinations Committee shall be tasked with carrying out the examination procedures, especially the planning and organisation of the examinations. Its duties include ensuring that the provisions of these examination regulations are observed. With the exception of the examinations themselves and their assessment, which the examiners are responsible for, all decisions shall be taken by the Examinations Committee. The Examinations Committee shall check delegated decisions if requested to do so and shall verify that examinations have been legitimately assessed. It shall regularly report to the Department Council on the development of examinations and study periods. The members of the Examinations Committee shall have the right to be present during examinations.

4. The Examinations Committee shall have a quorum when all members are summoned in writing observing a notice period of at least one week and the majority of members are present and eligible to vote. Decisions shall be taken with the majority of votes cast in meetings. Abstentions, ballot votes and delegation of votes shall not be permitted. In case of a tie of votes, the vote of the chairperson shall be decisive.

5. The chairperson shall call the meetings of the Examinations Committee. The chairperson shall be entitled to take decisions that cannot be delayed on behalf of the Examinations Committee. The Examinations Committee shall be informed of such cases without delay. Furthermore, unless these examination regulations state otherwise, the Examinations Committee shall have the right to transfer individual tasks to the chairperson as well as revoke these responsibilities.

6. Official notifications in legal matters pertaining to examinations shall be made in writing; reasons shall be given and information on legal remedies available to the person shall be included. Students shall be given the opportunity to make a statement before negative decisions are finalised. The Examinations Committee shall have the right to rule that grade notifications may be sent out in electronic form to the individual
students. The President shall issue any notification of objection in questions of examination legislation following consultation with the Examinations Committee and after hearing the examiners.

Section 10 Examiners, Observers, Exclusion Due to Personal Involvement, Obligation to Confidentiality

(1) The Examinations Committee shall appoint examiners and reviewers. All persons eligible to administer examinations according to the current version of the Bavarian Higher Education Act (BayHSchG) and the Bavarian Higher Education Examiners Act (BayHSchPrüferV) shall be eligible for appointment. If an eligible examiner leaves the University, they shall usually remain eligible to act as an examiner for up to one year. The Examinations Committee shall have the right to extend this period upon request.

(2) A change of examiners shortly before the start of an examination shall be permissible on urgent grounds.

(3) Persons who have completed the degree programme in question or a degree programme related to it shall be eligible for appointment as observers. Observers shall be research associates in principal employment at the University.

(4) Exclusion from the deliberation and voting process of the Examinations Committee as well as from the positions of examiner and observer due to personal involvement shall be governed by Section 41 (2) BayHSchG.

(5) The obligation to confidentiality of the Examinations Committee and other persons involved in matters pertaining to examinations shall be governed by Section 18 (3) BayHSchG.

Section 11 Announcement of Examination Dates and Examiners, Registration, Withdrawal

(1) The dates of the examinations and the examiners shall be announced by the Examinations Office in time and according to local practice.

(2) Students shall register for the individual module examinations by the deadlines specified by the examiners. The registration dates and formalities shall be announced according to local practice four weeks in advance. The deadlines set forth in Sections 8 and 30 notwithstanding, withdrawal from written examinations for which students have registered pursuant to sentence 1 shall be permitted without stating reasons up until the examination is scheduled to start by refraining from attending the examination. For other examinations for which students have registered pursuant to sentence 1, withdrawals are permitted until the end of the third working day before the examination date; a declaration of the intent to withdraw has to be submitted to the examiner. The days between and including Monday and Friday shall be considered working days. Once a student has declared that they wish to withdraw they may not revoke this declaration; registration to the examination shall be cancelled upon effective withdrawal. The consequences of a delayed or invalid withdrawal shall be governed by Section 14 (1). After this point in time, withdrawal shall only be possible if reasons beyond the student’s control according to Section 8 (1)(4) and (3) are given. The reasons for withdrawal shall be explained in writing and shown credibly to the Examinations Committee without delay. If the Examinations Committee accepts the reasons, a new date shall be set. In cases where the student is unable to sit an examination
due to illness, a certificate from an official medical examiner (vertrauensärztliches Attest) may be required by the Examinations Committee. In case of withdrawal from an examination due to illness after the examination has started, the student must submit a certificate from an official medical examiner (vertrauensärztliches Attest) to the Examinations Committee without delay.

Section 12 Admissions Committee for the Master’s Degree Programme
(1) The evaluation of the qualification and admission requirements for a Master’s degree programme shall be the responsibility of the Admissions Committee appointed jointly for the Master’s degree programmes in the Department of Mathematics.

(2) The Admissions Committee consists of the chairperson and two other professors from the Department of Mathematics as well as a research associate in principal employment at the University, who are appointed by the Department Council for a duration of three years; reappointment is permitted. Section 9 (4) and (5) shall apply accordingly.

Section 13 Accreditation of Skills
(1) Study periods, modules, course and examination achievements achieved in degree programmes at other public or state-approved universities in the Federal Republic of Germany, through successful participation in a distance course as part of a degree programme at a public or state-approved university in the Federal Republic of Germany, or in degree programmes at foreign universities shall be accredited according to these examination regulations unless there are significant differences in the skills acquired. The same shall apply to study periods, course and examination achievements achieved at a public or state-approved university in Bavaria in the course of other study programmes within the meaning of Section 56 (6)(1) and (2) BayHSchG, in special study programmes within the meaning of Section 47 (3)(1) BayHSchG, or at the Virtual University of Bavaria.

(2) Skills acquired in programmes for professional development within the meaning of Section 56 (6)(3) BayHSchG, or outside of higher education shall be accredited if they are equivalent to skills acquired through university studies. Skills acquired outside the university sector shall replace no more than half of the required skills of which students must provide proof.

(3) The grades achieved in approved modules, examinations and course achievements shall be transferred if they were awarded according to Section 20 and are recognised as equivalent according to the recommendations in the anabin database (information portal for the recognition of foreign qualifications offered by the Standing Conference of the Ministers of Education and Cultural Affairs (KMK)). If the grading system applied in the examinations sat at a university or equivalent institution of higher education and accredited by FAU is not identical to the grading system set forth in Section 20, the grades achieved at other universities are usually converted according to the following formula:

\[ x = 1 + 3 \times \frac{(N_{\text{max}} - N_d)}{(N_{\text{max}} - N_{\text{min}})} \]

where:
- \(x\) = converted grade
- \(N_{\text{max}}\) = best grade attainable
- \(N_{\text{min}}\) = lowest grade for passing
- \(N_d\) = grade attained.
Only one decimal place is shown for the grades thus calculated. If conversion is not possible, the Examinations Committee usually determines a system by which to calculate the grades.

(4) The documents needed for this accreditation shall be submitted to the chairperson of the Examinations Committee. Subject to the provisions in sentence 3, the student shall have a legal claim to accreditation if the conditions stipulated in (1) and (2) are met. Accreditation is only possible if the student has not already lost the right to be examined in that subject at FAU by passing or failing to pass the relevant examination at the final attempt. If a student requests accreditation, the decision shall rest with the chairperson of the Examinations Committee after consultation with the subject representative appointed by the department; the decision shall be issued in writing.

Section 14 Consequences of Delayed Withdrawal, Breach of Regulations, Fraud, Exclusion from Further Participation

(1) An examination achievement shall be graded as 'nicht ausreichend' (unsatisfactory; 5.0) if the student withdraws from the examination after the withdrawal period (cf. Section 11 (2)) without good reasons. Section 8 (3) shall apply accordingly. The reasons for withdrawal according to sentence 1 shall be explained in writing and shown credibly to the Examinations Committee without delay. If the Examinations Committee accepts the reasons, a new date shall be set. In cases where the student is unable to sit an examination due to illness, a certificate from an official medical examiner may be required.

(2) In case of an attempt to commit fraud or to influence the result of an examination through the use of unauthorised materials, the examination in question shall be graded 'nicht ausreichend' (unsatisfactory, 5.0).

(3) Persons who disturb the orderly examination process may be excluded from continuing the examination by the authorised examiner or the supervising person; in this case the examination achievement in question shall be graded 'nicht ausreichend' (unsatisfactory, 5.0).

(4) In case of a repeated or severe breach of regulations in the sense of (1) or (2), the Examinations Committee may exclude students from further participation in the examination.

Section 15 Revocation of Degrees

The revocation of Bachelor’s and Master’s degrees shall be governed by Section 69 BayHSchG.

Section 16 Faults in the Examination Process

(1) Should it turn out that the examination process was faulty in a manner that influenced the result of the examination, it shall be ordered upon a student’s request that a certain student or all students shall resit the examination or parts of the same.

(2) Faults in the examination process shall be reported to the chairperson of the Examinations Committee or the examiner without delay.

(3) Six months after completion of the examination, resit examinations may no longer be ordered ex officio as stipulated in paragraph (1).
Section 17 Written Examination

(1) In written examinations students are required to prove that they are capable of identifying a problem within a limited period and with limited materials, using the conventional methods employed in their field, and to find a solution to this problem. Written examination achievements may take the form of written examinations, multiple-choice examinations, written assignments, seminar papers or electronic examinations.

(2) The duration of the written examination shall be governed by the relevant degree programme and examination regulations.

(3) Written examinations shall generally be graded by the author of the examination questions. If a written examination achievement is graded as 'nicht ausreichend' (unsatisfactory) it shall be presented to a second examiner for evaluation. The examiner’s evaluation must be documented in writing and reasons for the final grade must be made clear. Evaluations shall usually be presented within six weeks.

(4) Written examinations may take the form of multiple-choice examinations (single and/or multiple correct answers), either in full or in part. Detailed information on the modules with multiple-choice examinations is given in the module handbook. The examinee shall state which of the answers to the questions they deem to be correct. Examination questions must allow for reliable examination results. When drawing up the examination questions, it shall be specified which of the answers shall be accepted as correct. If the question does not allow multiple answers, multiple answers shall be inadmissible and disregarded. Before the evaluation of the examination results, at least two of the authors of the examination shall assess whether the examination questions meet the requirement set out in sentence 4. Should they determine that individual examination questions are faulty, these shall not be taken into account in the evaluation of the examination result; the number of examination questions shall be considered to have been reduced. This reduction of the number of examination questions may not result in disadvantages for any of the examinees. No minus points may be awarded outside of individual examination questions.

(5) The examinations according to (4)(1) shall be considered to have been passed if:
1. the examinee answered at least 60 percent of the examination questions correctly/achieved at least 60 percent of the attainable points, or
2. the examinee answered at least 50 percent of the examination questions correctly/achieved at least 50 percent of the attainable points and the number of correct answers/points obtained is no more than 17 percent below the average number of correct answers/points obtained by all examinees sitting the examination for the first time.

If sentence 1 (2) is applied, the Dean of Studies shall be notified.

(6) In case of written examinations that are not entirely composed of multiple-choice examinations, (4) and (5) shall only apply for the respective part.

Section 18 Oral Examination

(1) In oral examinations students must demonstrate both general and specific knowledge of the subject being tested. Oral examinations shall be conducted in the presence of an observer appointed by the examiner.
(2) The duration of oral examinations shall be governed by the relevant degree programme and examination regulations.

(3) In oral examinations in the presence of several authorised examiners, each examiner shall determine the grade according to Section 20.

(4) 1A record shall be kept of the oral examination; this shall include the following: place, date and duration of the examination; name of the module to which the examination belongs and number of ECTS credits allocated to the module; subject and result of the examination; the names of the examiners, the observer and the student; and any special occurrences. 2The record shall be signed by the authorised examiners and the observer. 3It shall not be necessary to record the questions asked in the examination or the answers given.

Section 19 Electronic Examinations
1Examinations may be administered in electronic form. 2Detailed information on the modules in which examinations are in electronic form is given in the module handbook. 3Electronic examinations (e-examinations) are examinations which are administered and evaluated via computer or using digital technology. 4The authenticity and integrity of the examination results shall be verified. 5Automatically calculated evaluations of examination achievements shall be verified by one examiner at the request of the examinee or two examiners in case of a failed examination.

Section 20 Evaluation of Examinations, Grades, Final Grade
(1) 1The evaluation of individual examination achievements shall be expressed by the examiners with the following grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sehr gut</td>
<td>(1.0 or 1.3)</td>
<td>an outstanding achievement;</td>
</tr>
<tr>
<td>gut</td>
<td>(1.7 or 2.0 or 2.3)</td>
<td>an achievement that exceeds the average requirements considerably;</td>
</tr>
<tr>
<td>befriedigend</td>
<td>(2.7 or 3.0 or 3.3)</td>
<td>an achievement that fulfils average requirements;</td>
</tr>
<tr>
<td>ausreichend</td>
<td>(3.7 or 4.0)</td>
<td>an achievement that fulfils the requirements despite flaws;</td>
</tr>
<tr>
<td>nicht ausreichend</td>
<td>(4.3 or 4.7 or 5.0)</td>
<td>an achievement that no longer fulfils requirements due to considerable flaws.</td>
</tr>
</tbody>
</table>

2An examination (Section 6 (2)) has been passed if it has received at least the grade ‘ausreichend’ (sufficient). 3For ungraded examinations (Section 6 (3)(4)) the result shall be either ‘bestanden’ (pass) or ‘nicht bestanden’ (fail). 4Except when otherwise stipulated in the degree programme and examination regulations, a module examination shall have been passed when all parts of the examination or partial achievements (Section 6 (2)(3)) have been passed). Sentence 2 is not affected. 5If an examination has several examiners or consists of several parts or partial achievements, the total grade is calculated from the weighted average of the individual grades; the grading system described in sentence 1 shall not be used. 6One decimal place shall count towards the module grade; further decimal places shall be omitted without being rounded.

(2) 1Multiple choice examinations (single and/or multiple correct answers) shall be evaluated as follows: 2Students who answer the required minimum of examination questions correctly or attain the minimum number of attainable points according to Section 17 (5)(1) shall receive the grade:

1.0 (‘sehr gut’/very good) if at least 75 percent of the remaining questions were answered correctly or remaining points were achieved,
2.0 (`gut'/good) if at least 50 percent but less than 75 percent of the remaining questions were answered correctly or remaining points were achieved,
3.0 (`befriedigend'/satisfactory) if at least 25 percent but less than 50 percent of the remaining questions were answered correctly or remaining points were achieved,
4.0 (`ausreichend'/sufficient) if none or less than 25 percent of the remaining questions were answered correctly or remaining points were achieved.

The grades can be increased or decreased by increments of 0.3 according to the percentage; the grades 0.7, 4.3 and 4.7 shall not be awarded. Students who do not achieve the required minimum shall receive the grade 5.0. Sentence 4 notwithstanding, in addition to the grade 5.0, the grades 4.3 and 4.7 may also be awarded in cases in which examinations according to Section 17 (6) partly take the form of a multiple-choice examination.

3) The grades can be increased or decreased by increments of 0.3 according to the percentage; the grades 0.7, 4.3 and 4.7 shall not be awarded. Students who do not achieve the required minimum shall receive the grade 5.0. Sentence 4 notwithstanding, in addition to the grade 5.0, the grades 4.3 and 4.7 may also be awarded in cases in which examinations according to Section 17 (6) partly take the form of a multiple-choice examination.

(3) The Grundlagen- und Orientierungsprüfung (GOP) shall have been passed if the requirements stipulated in Section 27 of these examination regulations and in the relevant degree programme and examination regulations have been fulfilled.

(4) The overall grade of the GOP, the Bachelor’s examination, the Master’s examination and the modules shall be as follows:
   at an average of up to 1.5 = sehr gut (very good),
   at an average of over 1.5 and up to 2.5 = gut (good),
   at an average of over 2.5 and up to 3.5 = befriedigend (satisfactory),
   at an average of over 3.5 and up to 4.0 = ausreichend (sufficient),
   at an average of over 4.0 = nicht ausreichend (unsatisfactory).

Students who pass the Bachelor’s or Master’s examination with a final grade between 1.0 and 1.1 shall receive the overall assessment ‘mit Auszeichnung bestanden’ (passed with distinction).

(5) With the Examinations Committee’s approval, the module coordinator shall disclose in the module handbook how the module grade is calculated from the evaluations of the individual parts of the module examination (Section 6 (2)); paragraph 1 sentence 5 clause 2 and sentence 6 shall apply accordingly. If the Bachelor’s and Master’s thesis modules consist of a thesis and an oral part, the relevant degree programme and examination regulations may stipulate that the Bachelor’s and Master’s thesis as well as the rest of the module shall be weighted according to their number of ECTS credits when calculating the module grade. If the examination is not graded, the successfully completed module shall have the result ‘bestanden’ (pass).

(6) The final grade of the GOP shall be calculated using all module grades from the modules required for passing the GOP weighted according to their number of ECTS credits. In case of several possible modules, the better results shall be used.

(7) All module grades of the Bachelor’s degree programme shall be included in the calculation of the final grade of the Bachelor’s examination, with the individual grades weighted according to their ECTS credits. Paragraph 1 sentence 5 clause 2 and sentence 6 shall apply accordingly.

(8) All module grades of the Master’s degree programme shall be included in the calculation of the final grade of the Master’s examination, with the individual grades
weighted according to their ECTS credits. 2Paragraph 1 sentence 5 clause 2 and sen-
tence 6 shall apply accordingly.

(9) The degree programme and examination regulations may stipulate that individ-
ual module examinations shall be given a different weighting in the calculation of the
final grade of the Bachelor’s or Master’s examination.

Section 21 Invalidity of Examinations
(1) If fraudulent methods were used during the examination and if this only becomes
known after the certificate has been awarded, the Examinations Committee may cor-
rect the grade retrospectively and declare the examination as having been failed in
part or in full.

(2) If the requirements for admission to the examination were not fulfilled while no
fraudulent acts were committed wilfully and if this fact only becomes known after the
certificate has been awarded, these circumstances shall be considered remedied by
the passing of the examination.

(3) Students shall be given the opportunity to make a statement before a decision is
taken.

(4) 1The incorrect certificate shall be withdrawn; a new certificate shall be issued if
applicable. 2A decision according to paragraph (1) and paragraph (2) shall be excluded
after a period of five years starting with the certificate’s date of issue.

Section 22 Inspection of Examination Records
(1) After the completio n of the individual examination procedures, students shall on
request be entitled to inspect their written examination papers, the corresponding re-
views by the examiners, and the examination records.

(2) 1Students shall submit the request to the responsible examination body within one
month of being notified of their grades. 2Unless the Examinations Office is responsible,
the examiner shall allow the inspection; further details shall be decided by the Exami-
nations Committee. 3Students prevented from observing the deadline according to (1)
through no fault of their own shall be granted full restitution according to Section 32 of
the Bavarian Administrative Procedures Act (BayVwVfG).

Section 23 Final Academic Record, Diploma Supplement,
Transcript of Records, Degree Certificate
(1) Students who have successfully completed a degree programme shall receive a
final academic record, a transcript of records, a diploma supplement and a degree
certificate, generally within four weeks.

(2) 1The final academic record shall contain the modules and module grades and the
final grade of the Bachelor’s or Master’s examination; it shall also cite the topic of the
Bachelor’s or Master’s thesis. 2The transcript of records lists all modules attended; the
final academic record and the transcript of records may be combined into one docu-
ment. 3The transcript of records and the diploma supplement shall be issued in English
and German. 4Further details on the diploma supplement, in particular regarding its
content, shall be determined by the Examinations Committee. 5Information not yet
available to the Examinations Office must be submitted together with the required proof
by the time of the degree programme’s completion at the latest; otherwise this information may no longer be taken into consideration for the documents listed in paragraph (1).

Section 24 Notification of Failed Examinations
Upon request and submission of the required certificates as well as the de-registration certificate, students who have failed the Bachelor’s or Master’s examination at the final attempt shall receive written confirmation showing that the examination was failed, which grades were achieved in the individual module examinations and which examination achievements are still missing.

Section 25 Adjustments to Examination Arrangements
(1) The examination procedure shall be adjusted to take into account the nature and extent of a student’s disability. Students with a doctor’s certificate showing credibly that they are either in part or fully incapable of sitting the examination in the intended manner due to long-term or permanent physical disabilities shall be entitled to have the permission of the chairperson of the Examinations Committee to offset this disadvantage by a corresponding extension of their working time or by the examination process being structured differently. However, care must be taken to ensure that the examination is still suitable to provide evidence of skills which are being assessed by the examination.

(2) Adjustments to examination arrangements may be made for pregnant students if the student submits a medical certificate confirming that she will be at least 30 weeks pregnant by the examination date to the Examinations Committee responsible at least four weeks before the examination date.

(3) Decisions according to paragraphs (1) and (2) shall only be taken by the chairperson of the Examinations Committee upon written request. The student may be required to submit an official certificate from a medical examiner (vertrauensärztliches Attest) proving the fulfilment of the conditions in paragraph (1). Applications for adjustments to examination arrangements should be made to the Examinations Committee no later than four weeks before the examination.

Part II: Bachelor’s examination

Section 26 Admission Requirements for Examinations
(1) Students enrolled in a Bachelor’s degree programme shall be deemed as admitted to the Bachelor’s examination and the module examinations of which the Bachelor’s examination consists, unless admission is to be refused. Admission shall be refused if:
   1. Requirements are not met or certificates are not submitted at all or not in due time as stipulated in the special provisions of these examination regulations and in the degree programme and examination regulations.
   2. The GOP, the Bachelor’s examination, the Diplom intermediary examination or the Diplom examination in the same subject or in a related subject has been failed at the final attempt.
   3. It has been ordered that the student is to be de-registered, resulting in the revocation of the student’s right to sit the examination.
(2) If admission to the examinations is to be refused, the decision shall be taken without delay, furnished with reasons and information on legal remedies available and announced to the student.

Section 27 Grundlagen- und Orientierungsprüfung (GOP)
(1) In the GOP students should prove that they:
- can fulfil the requirements of an academic course of study in their chosen subjects
- have acquired the methodological skills required to continue their studies successfully.

(2) The GOP shall have been passed when at least 30 ECTS credits have been earned from the modules designated as part of the GOP in the relevant degree programme and examination regulations and all requirements stipulated in the relevant degree programme and examination regulations have been fulfilled. The relevant degree programme and examination regulations shall specify subject, type and scope of the GOP.

Section 28 Bachelor’s Examination
1 The degree programme and examination regulations shall specify subjects, type and scope of the Bachelor’s examination. 2 The Bachelor’s examination shall have been passed if all subject modules required according to the degree programme and examination regulations have been passed achieving 180 ECTS credits.

Section 29 Bachelor’s Thesis
(1) 1 The Bachelor’s thesis is intended to show that the student is capable of dealing with a problem from their field independently according to academic methods within a set period and presenting the results in an appropriate form. 2 Students are awarded ten ECTS credits for the Bachelor’s thesis.

(2) 1 Unless the relevant degree programme and regulations state otherwise, university lecturers in principal employment at the University at the Department of Mathematics for the degree programme in question shall be entitled to assign Bachelor’s theses (supervisors). 2 The Examinations Committee shall have the right to grant exceptions.

(3) 1 Students shall ensure that they receive a subject for their Bachelor’s thesis at the latest by the start of the last semester of the standard duration of their degree programme. 2 The relevant degree programme and examination regulations govern the requirements for admission to the Bachelor’s thesis. 3 The Examinations Office shall be notified of the subject and the date of allocation. 4 Should a student, despite a genuine effort to that end, not be allocated a subject, the chairperson of the Examinations Committee shall, in consultation with a representative of the student’s department, allocate a subject and a supervisor to the student.

(4) 1 The period between being allocated the subject and submitting the Bachelor’s thesis (standard thesis work period) shall be two months. 2 The scope of the subject must be such that it can be completed within the standard thesis work period. 3 The Examinations Committee shall have the right to extend the period for the thesis by a maximum of one month upon receiving a justified request (in particular if the student has experienced technical problems). 4 If a student submits a doctor’s certificate proving that they are incapable of working on the thesis due to illness, the period for thesis work shall be suspended temporarily.
(5) 1The subject of the Bachelor’s thesis may only be returned once and within the first three weeks of the thesis work period; returning the subject shall not be permitted for repetitions of the Bachelor’s thesis. 2If the subject is returned where it is not admissible, the Bachelor’s thesis shall receive the evaluation ‘nicht ausreichend’ (unsatisfactory; 5.0).

(6) 1Unless otherwise stipulated in the degree programme and examination regulations, the thesis shall be written in German, or in English with the permission of the supervisor. 2With the supervisor’s agreement, the chairperson of the Examinations Committee may permit students to write the thesis in a different language upon request.

(7) 1The thesis shall be submitted to the Examinations Office and the supervisor in a machine-readable, electronic version. At least one printed copy shall also be submitted to the supervisor. 2The Bachelor’s thesis shall include a declaration by the student confirming that the thesis is an original work and that no other sources or materials than the ones listed were used.

(8) 1The Bachelor’s thesis is usually graded by the supervisor. 2The thesis shall be evaluated in writing and a grade given pursuant to Section 20 (1). 3The Examinations Committee can arrange for the thesis to be evaluated a second time by another examiner. This must be done if the thesis is graded ‘unsatisfactory’ the first time. 4The chairperson of the Examinations Committee shall usually work towards the thesis being graded within one month. 5If the thesis is evaluated twice and each grade is at least ‘sufficient’, the rounded arithmetic average of the evaluations shall be the grade the Bachelor’s thesis is given. Only one decimal place shall be shown in the final grade. 6If two evaluations give the thesis the grade ‘unsatisfactory’, this is the grade the Bachelor’s thesis is given. 7If there are two evaluations, one of which gives the thesis at least ‘sufficient’ and one ‘unsatisfactory’, the Examinations Committee shall arrange for a third examiner to evaluate and grade the thesis. 8If the third grade is also ‘unsatisfactory’, this shall be the grade the Bachelor’s thesis receives; otherwise the grade shall be the lower of the two grades that are at least ‘sufficient’.

(9) 1If a Bachelor’s thesis is rejected, it may be repeated once; a second repetition or revision shall not be permitted. 2The student shall ensure that they receive a new subject for the repetition of the thesis within two months following the announcement that the original thesis was graded unsatisfactory; otherwise the thesis shall be regarded as having been failed at the final attempt. 3Paragraphs 1 and 2, paragraph 3 sentence ^4 and paragraphs 4 to 8 shall apply accordingly in the case of a repetition.

Section 30 Resitting Examinations, Changing Modules, Additional Modules
(1) 1With the exception of the GOP and the Bachelor’s thesis, every module examination or partial module examination may be resat twice; course achievements may be repeated without restriction. 2The resit examination shall be limited to the failed examination or course achievement. 3Examinations that are part of the GOP according to the respective degree programme and examination regulations may only be resat once; Section 29 (9) shall apply to repetition of the Bachelor’s thesis. 4The resit examination must be sat on the next possible date, which shall generally be in the semester following the first examination. 5The student shall be considered as registered for the next resit examination. 6The deadline for resit examinations shall not be interrupted by de-registration, change to or from a part-time degree programme, or leave. 7If a student...
misses the resit examination or the resit period is not observed, the examination shall be deemed to have been failed unless the Examinations Committee grants the student a respite due to special reasons beyond the student's control. The standard deadlines according to Section 8 shall not be interrupted. §The provisions regarding maternity protection, parental leave and caregiver leave (Section 8(2)) shall apply.

(2) ¹Voluntarily resitting a passed examination of the same module shall not be permitted. ²Unless the degree programme and examination regulations state otherwise, alternative modules may be completed to replace failed modules; the failed attempts in the previous alternative module shall not be counted. ³The same shall apply to modules that are attended and completed within the examination periods in Section 8 in addition to successfully completed modules. ⁴If a student completes additional modules, they shall decide which of the achievements shall count towards the grade. ⁵The provisions in the degree programme and examination regulations shall not be affected. ⁶Students shall notify the Examinations Office of their decision at the latest by the end of the degree programme. ⁷This decision is binding. ⁸If no decision is made by the student, the Examinations Office shall consider the student's best achievements in a semester. ⁹The achievements that do not count towards the grade shall be listed in the transcript of records.

Part III: Master's Examination

Section 31 Master's Examination

(1) Qualification requirements for the Master's degree programme shall be proved through:
1. An undergraduate degree that is subject-specific or subject-related to the Master’s degree programme in question from a university or another degree with equivalent content; the degree programme and examination regulations of the relevant Master’s degree programmes shall govern the subject-specific and subject-related degrees according to Clause 1.
2. Passing the qualification assessment process according to the Appendix.

(2) ¹Degrees according to (1)(1)(1) must be equivalent to the subject-specific Bachelor’s examination according to these examination regulations and the relevant degree programme and examination regulations with regard to the expertise gained. ²If there are significant differences which can be compensated for, the Admissions Committee may grant admission under the condition that proof of further achievements worth up to a maximum of 20 ECTS credits and to be determined by the Admissions Committee be submitted within one year of taking up studies for a Master's degree.

(3) ¹Paragraph 1(1) notwithstanding, students enrolled in a Bachelor's degree programme may be admitted to a Master’s degree programme if they have achieved at least 140 ECTS credits. ²Proof of the successfully completed Bachelor's degree shall be submitted at the latest within one year of taking up the degree programme; completing the Bachelor's degree programme is a prerequisite for formally starting the Master’s degree programme. ³Admission to the Master’s degree programme shall be granted conditionally.
Section 32 Admission to Examinations

1 Students enrolled in the Master’s degree programme shall be considered admitted to the Master’s examination and the module examinations of which the Master’s examination consists, unless admission is to be refused. 2 Admission shall be refused if:

1. requirements are not met or certificates are not submitted at all or not in due time as stipulated in the special provisions of these examination regulations and in the degree programme and examination regulations,
2. the Diplom or Master’s examination in a subject-related degree programme has been failed at the final attempt, or
3. it has been ordered that the student is to be de-registered, resulting in the revocation of the student’s right to sit the examination.

Section 33 Master’s Examination

(1) 1 The Master’s examination shall consist of all module examinations throughout the degree programme including the Master’s thesis module. 2 The relevant degree programme and examination regulations may stipulate that the Master’s thesis is to be complemented by a final oral examination (Master’s colloquium). 2 The relevant degree programme and examination regulations may stipulate that the Master’s thesis is to be complemented by a final oral examination (Master’s colloquium).

(2) The relevant degree programme and examination regulations shall specify the subjects, type and scope of the Master’s examination.

Section 34 Master’s Thesis

(1) 1 The Master’s thesis is a graded written assignment that concludes the Master’s degree. 2 It is intended to show that the student is capable of dealing with a problem from their field independently and according to scientific methods within a set period. 3 The Master’s thesis may not to any significant degree be identical to a previously submitted Diplom, Bachelor’s, Master’s or doctoral thesis (prevention of plagiarism). 4 According to the provisions set forth in the respective degree programme and examination regulations, 25 or 30 ECTS credits are awarded for the Master’s thesis module.

(2) 1 Students shall ensure that they receive a subject for their Master’s thesis at the latest by the start of the last semester of the degree programme’s standard duration. 2 The subject and the date of its allocation shall be confirmed by the supervisor and presented to the Examinations Office. 3 Should a student, despite a genuine effort to that end, not be allocated a subject, the chairperson of the Examinations Committee shall, in consultation with a representative of the student’s department, allocate a subject and a supervisor to the student. 4 The degree programme and examination regulations may stipulate conditions for allocating a Master’s thesis.

(3) 1 Unless the degree programme and examination regulations state otherwise, university lecturers in principal employment at the University involved in the degree programme in question at the Department of Mathematics shall be entitled to assign Master’s theses. 2 The Examinations Committee shall have the right to grant exceptions. 3 The Examinations Committee may permit students to write their Master’s thesis at an institution outside the University if supervision there is ensured.

(4) 1 The time between the selection of a subject and the submission of the Master’s thesis shall be six months; the scope of the subject must be such that it can be dealt
with within this period. 2The Examinations Committee shall have the right to extend the period for the Master’s thesis by a maximum of three months upon receiving a justified request (in particular if the student has experienced technical problems). 3If a student submits a doctor’s certificate proving that they are incapable of working on the Master’s thesis, the period for thesis work shall be suspended temporarily.

(5) 1The subject may only be returned once with good reason and with the approval of the chairperson of the Examinations Committee within the first third of the period for thesis work. 2Otherwise the Master’s thesis shall be graded ‘nicht ausreichend’ (unsatisfactory; 5.0) if the subject is returned; it shall be regarded as rejected.

(6) 1The thesis shall be written in German or, with the approval of the supervisor, in English. 2The Master’s thesis shall contain a summary of results at the end. 3The design of the title page shall follow the template provided by the Examinations Committee. 4The Master’s thesis shall include a declaration by the student confirming that the thesis is an original work and that no other sources or materials than the ones listed were used. 5The Master’s thesis shall be submitted to the Examinations Office and the supervisor in a machine-readable, electronic version. At least one printed copy shall also be submitted to the supervisor. 6If the Master’s thesis is not submitted in time, it shall be graded 'nicht ausreichend' (unsatisfactory; 5.0); it shall be regarded as rejected.

(7) 1The Master’s thesis is usually graded by the supervisor and a further authorised examiner as a second examiner; Section 29 (8) sentences 2, and 4 to 8 shall apply accordingly. 2The chairperson of the Examinations Committee shall work towards the Master’s thesis being graded within one month.

(8) 1The Master’s thesis shall be accepted if it receives at least the grade 'ausreichend' (sufficient). 2It shall be rejected if it receives the grade 'nicht ausreichend' (unsatisfactory).

(9) 1If the Master’s thesis is rejected or if it is regarded as rejected, it may be repeated once; a second repetition shall not be permitted. 2The student shall ensure that they receive a new subject for the repetition of the Master’s thesis within the semester following the announcement of the rejection at the latest; otherwise the Master’s thesis shall be regarded as having been failed at the final attempt. 3Paragraphs 1 and 2 sentences 2 and 3 and paragraphs 3 to 8 shall apply accordingly for the repetition of the Master’s thesis; returning the subject shall not be permitted. 4The chairperson of the Examinations Committee may permit the student to submit a revised version of the Master’s thesis within six months of the announcement of its rejection if this has not been ruled out by the examiner’s review. If revision of the thesis is permitted, paragraphs 1 and 2 sentences 2 and 3 and paragraphs 3 to 8 shall apply accordingly.

(10) 1Provisions that deviate from paragraphs 1 to 9 may be agreed upon within the framework of dual degree agreements or degree programme co-operations.

Section 35 Resitting Examinations, Changing Modules, Additional Modules
Section 30 shall apply accordingly, unless stipulated otherwise in the degree programme and examination regulations.
Section 36 Legal Validity, Transitory Provisions

(1) These examination regulations shall come into effect on the day after their publication. They shall apply to students starting a degree programme from the winter semester 2015/2016 onwards. Notwithstanding sentence 2, Sections 7, 8 (2), 13, 17, 19, 20, 25 and 25 of these examination regulations shall also apply to students who are already studying the Bachelor’s and Master’s degree programmes in Mathematics, Industrial Mathematics and Economics and Mathematics in accordance with the previously valid examination regulations of 7 September 2007 as amended on 30 July 2010. With the exception of the provisions listed above, these students shall sit their examinations in accordance with the previously valid examination regulations. Students who are already studying the Bachelor’s and Master’s degree programmes in Mathematics, Industrial Mathematics and Economics and Mathematics in accordance with the previously valid examination regulations of 7 September 2007 as amended on 30 July 2010 and who entered the Bachelor’s degree programme in the winter semester 2014/2015 or later are given the option of accepting these examination regulations in their entirety by filing an application to this effect with the Examinations Office on or before 30 November 2015. By agreeing to these examination regulations, students automatically agree to the relevant degree programme and examination regulations.

(2) The examination regulations for the Bachelor’s and Master’s degree programmes in Mathematics, Industrial Mathematics and Economics and Mathematics at FAU dated 7 September 2007 as amended on 30 July 2010 shall cease to apply as of 30 September 2023.
Appendix

Qualification assessment process for the Master’s degree programmes in Mathematics, Computational and Applied Mathematics and Economics and Mathematics at the Faculty of Sciences at FAU

(1) The qualification assessment process for the relevant Master’s degree programme shall be carried out once before the start of the lecture period of the semester preceding the regular start of a degree programme.

(2) Applications for the qualification assessment process must be submitted to the Master’s Office by 15 July for the winter semester and 15 January for the summer semester. The application shall contain:
   1. a certificate proving that the applicant holds a university degree according to Section 31 (1)(1) (final academic record, transcript of records, diploma supplement or comparable documents),
   2. for applicants who have not yet obtained their Bachelor’s degree: a transcript of records demonstrating that at least 140 ECTS credits have been obtained,
   3. where applicable, further documents as proof of fulfilment of the requirements set forth in the relevant degree programme and examination regulations.

(3) In accordance with Section 12, qualification assessment shall be the responsibility of the Admissions Committee of the Master’s degree programme in question. The Admissions Committee may transfer the task of coordinating and carrying out the process to individual members unless otherwise stated. The Admissions Committee shall fulfil its obligations in cooperation with the Master’s Office.

(4) Admission to the qualification assessment process shall be subject to the timely and complete submission of the documents listed in (2). The qualification assessment process shall be carried out with those applicants who fulfil the requirements according to the provisions in (5). Applicants who are rejected shall receive a rejection notification including reasons and information on legal remedies available.

(5) The relevant Admissions Committee shall select applicants based on the submitted documents as part of the qualification assessment process to assess whether they are qualified for a Master’s degree programme. The Admissions Committee shall deem the applicant qualified based on submitted documents if the final grade of the subject-specific or subject-related/equivalent degree fulfils the provisions under Section 31 (1)(1) clause 1 and 2 or in the case of Section 31 (3) if the student has achieved an average of 3.0 (satisfactory) or better in their previous achievements; for degrees graded on the basis of a different grading system Section 13 (3) shall apply accordingly. Applicants who cannot be admitted to the Master’s degree programme on the basis of their submitted qualifications alone shall be invited to a selection interview. Sentence 2 notwithstanding, individual degree programme and examination regulations can specify whether candidates with a degree from a related subject or an equivalent degree shall have to pass an oral admission examination before they can be admitted to the Master’s degree programme. The date of the selection interview shall be announced at least one week in advance. If an applicant should be unable to attend due to reasons beyond their control, a second date may be set upon justified request up until two weeks before the start of the lecture period. The selection inter-
view is an individual interview which lasts approximately 20 minutes. 8With the appli-
cant’s approval, the oral admission examination may be conducted as a video confer-
ence. 9It shall be conducted by two university lecturers from the Department of Mathe-
matics appointed by the Admissions Committee. Section 18 (4) shall apply accordingly.
10The oral admission examination is intended to demonstrate in particular that the ap-
plicant possesses the required technical and methodological expertise and can be ex-
pected to carry out independent academic work in a more research-oriented degree
programme; the individual degree programme and examination regulations shall
specify the criteria of the examination. 11The result of the oral examination and the
qualification assessment process will be given as ‘bestanden’ (pass) or ‘nicht
bestanden’ (fail). 12Applicants will be notified of the result in writing. 13A rejection noti-
ification shall include reasons and information on the legal remedies available. 14It will
not be possible to repeat the qualification assessment process on the basis of the
documentation submitted with the first application.

(6) Applicants shall bear their own costs of the qualification assessment process.

(7) Confirmation of passing the qualification assessment process shall remain valid
indefinitely, provided that the Master’s degree programme has not been changed sig-
nificantly.