

**Examination regulations for the
Master's degree programmes offered by the Department of Computing Science
at Faculty II – Computing Science, Economics and Law of the
Carl von Ossietzky University of Oldenburg**

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- Unofficial Version -

***This is an unofficial English translation, based on the German
"Prüfungsordnung für die Fachmasterstudiengänge des Departments für Informatik der Fakultät II – Informatik, Wirtschaft- und Rechtswissenschaften an der Carl von Ossietzky Universität Oldenburg".***

The German document published in "Amtliche Mitteilungen der Carl von Ossietzky Universität Oldenburg" is the legally binding one.

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§ 1

Scope of application

These Master's examination regulations apply to the Master's degree programmes offered by the Department of Computing Science at Faculty II – Computing Science, Economics and Law of the Carl von Ossietzky University of Oldenburg.

§ 2

General learning outcomes

The degree programmes are research-oriented and designed to give students a comprehensive and in-depth knowledge of their chosen subjects. The objective of the Master's programmes is to prepare students for professional and academic careers and to lay the foundations for a PhD. Students learn to analyse subject-related problems in an interdisciplinary manner, to work responsibly and scientifically, and to present their findings coherently. To promote student's ability to identify, describe, solve and assess complex scientific problems, emphasis is placed on the development of creativity, original thinking and interdisciplinary cooperation. In addition, graduates must be capable of reflecting upon and communicating their knowledge, conclusions and rationally justified solutions effectively to both experts and a general audience.

Additional, degree-specific learning outcomes are outlined in the corresponding appendices to this document.

§ 3

Purpose of the examinations

By passing the examinations, graduates demonstrate that they have gained sufficient specialised knowledge and skills to enter into professional practice, have a good grasp of subject-related contexts, and are able to successfully apply scientific knowledge in practice and work in a scientific manner. The Master of Science programmes are concluded with Master of Science degree examinations which qualify graduates for professional practice. The examination requirements ensure a high standard of education in view of the standard period of study as well as the current state of academic knowledge and the requirements of professional practice.

§ 4

University degree

After successfully completing all the required examinations, the Faculty of Computing Science, Economics and Law of the Carl von Ossietzky University of Oldenburg awards the university degree of 'Master of Science (MSc)'. The University of Oldenburg also issues a Master's degree certificate (Appendix 1.a) in English for those degree programmes which were taught in English or if the student submits a request to that effect (Appendix 1.b).

§ 5

Duration, workload and structure of the degree programme, credit points, part-time study

(1) The degree programme is divided into four semesters and has a total student workload of 120 credit points. The standard period of study is two years. Each semester, students are required to attain 30 ECTS. One ECTS corresponds to an average student workload of 30 hours.

(2) The Master's programme consists of modules relating to the chosen subject, with a total student workload of 90 ECTS, and the Master's thesis module with a student workload of 30 ECTS. More information can be found in the degree-specific appendices.

(3) Modules may also be taught in English. Unless otherwise specified in the degree-specific appendix, the proportion of English-taught modules should not exceed 50%.

(4) If permitted by the degree-specific appendix, the programme may be completed on a part-time basis in accordance with the Lower Saxony Higher Education Act (NHG). Part-time study is based on the currently applicable regulations for part-time studies at the Carl von Ossietzky University of Oldenburg.

§ 6

Examining Board, Examination Office

(1) A joint Examining Board is established for Master's degree programmes in the Department of Computing Science. It organises the examinations and undertakes the tasks stipulated in these examination regulations. The Examining Board decides on all matters relating to examinations, unless otherwise stipulated in these regulations, and in particular ensures that the provisions of the Lower Saxony Higher Education Act (NHG) and these examination regulations are complied with. The Examining Board is administratively supported by the Examinations Office in executing its tasks; the Examinations Office shall in particular keep the examination records.

(2) Examining Board members and their deputies are appointed by the School Council of School II - Computing Science, Business Administration, Economics and Law. The members of the Examining Board are nominated to act as permanent representatives by their respective group representatives at the Department of Computing Science.

(3) The Examining Board is composed of:
three professors or lecturers who teach at least one of the Master's degree programmes in the Department of Computing Science,
a member of academic staff who teaches at least one of the Master's degree programmes in the Department of Computing Science,
a student of a Computing Science Master's degree programme

as well as one deputy for each of the above.

A member of staff from the Examinations Office must also attend the meetings of the Examining Board as an advisory member.

A subject representative from any subject in question may be consulted in an advisory capacity on subject-related issues. The subject representative is a person to be designated by the Examining Board who is a specialist in the respective subject, is professionally competent and has a qualification that is at least equal or equivalent to the qualification established by the examination (Section 15.4 Higher Education Framework Act). In appeals procedures pursuant to Section 19, it is compulsory to call upon a subject representative, unless a member of the Examining Board with voting rights already has the respective qualification of a subject representative.

In recognition or credit transfer procedures as defined in Section 8, the Examining Board may delegate decision-making powers, in individual cases or for the duration of its term of office, to a subject representative from the subject in which the recognition or credit transfer is to be decided upon in terms of content (subject representative for questions of recognition and credit transfer).

(4) Members (and their deputies) of the Examining Board are appointed for a period of two years, apart from student members (and their deputies) who are appointed for one year. The term begins on 1 April of each year.

(5) The professors/ lecturers who are members of the Examining Board shall appoint the Chair, and the professors/ lecturers or academic staff who are members of the Examining Board shall appoint the Deputy Chair.

(6) The Examining Board may transfer powers, which can be revoked at any time, to the Chair or Deputy Chair.

(7) Minutes are taken at the meetings of the Examining Board. These minutes record the main topics of discussion and the decisions taken by the Examining Board.

(8) The Examining Board takes decisions by a majority of valid votes cast. Abstentions do not count as votes cast. In the event of a tied vote, the Chair has the casting vote. Student members only have an advisory role in decisions regarding the assessment of examinations, the recognition of previous examination results or the accreditation of skills acquired outside higher education. The Examining Board may take decisions if the majority of its members, including the Chair or Deputy Chair, are present. At least two of the members present must be professors or university lecturers.

The members of the examining board have the right to visit examinations as an observer.

(10) Examining Board meetings are not public. Members of the Examining Board and their representatives are bound to secrecy concerning their office. Insofar as they are not in public service, they are obliged to secrecy by the Chair.

§ 7

Examiners and co-examiners

(1) The module examinations are assessed by subject specialists who are qualified and competent in the subject covered in the relevant module, as well as members of the teaching staff at this or another university. Professors, junior professors, academic and artistic staff, teaching staff appointed to carry out special tasks, visiting lecturers, lecturers and retired professors and those who have dispensation can be appointed as examiners. Subject to the approval of the responsible Examining Board, individuals with experience in professional practice and education may also be appointed as examiners.

(2) The Faculty Council grants the necessary authorisation to assess module examinations. The examiners will inform the students about the module descriptions.

(3) Co-examiners may be invited to attend oral examinations, but they do not have the right to ask questions. The examiner must consult the co-examiner before deciding the final grade.

(4) Examiners and co-examiners must have a qualification that is at least equal or equivalent to the qualification established by the examination.

§ 8

Recognition of previous examination results and accreditation of skills acquired outside higher education

(1) The competent Examining Board shall decide on the recognition of previous examination results or accreditation of skills acquired outside higher education at the request of the student. The request must be made to the Examinations Office. Section 6.3.6 shall remain unaffected.

(2) Examination results in the same or a related degree programme at a university or equivalent higher education institution in Germany or in the European Higher Education Area shall be recognised without a special equivalence assessment.

(3) Examination results in another degree programme shall be recognised provided there are no substantial differences in terms of the skills acquired. The overall situation must be taken into account in deciding whether modules are to be credited. Recognition involves checking the level, scope, quality, profile and learning outcomes. Fundamental differences must be verified by the university.

(4) Knowledge, skills and competencies acquired outside university degree programmes can be accredited provided that they are adequately demonstrated and are equivalent in terms of content and level to the skills objectives of the study modules against which they are to be credited. It is also possible to partially accredit further and advanced qualifications based on quality-assured equivalence assessments.

Up to 50% of the necessary credit points may be awarded in this manner.

If it is not possible to sufficiently determine the equivalence of the knowledge, skills and/or competences with regard to the relevant competence objectives on the basis of the evidence submitted, a review of the knowledge, skills and/or competences to be credited can be carried out by a module coordinator in an appropriate setting, usually lasting 15-20 minutes, with reference to the submitted documents, in order for the Examining Board to make a decision. The review can relate to several modules if the accreditation of several content-related modules has been requested.

(5) For recognised or accredited examination results, the grades are adopted, provided that the grade systems are comparable. Grades from an incomparable grade system are converted according to the Bavarian formula. If it is not possible to convert examination results achieved elsewhere, they shall be recognised or credited with a "pass", notwithstanding Section 13. Recognised or accredited examination results will be included in the academic transcript.

Additional factual and legal information can be obtained from the Central Office for Foreign Education (information portal for the recognition of foreign educational attainments – anabin). Deviating provisions based on agreements with foreign universities shall remain unaffected.

§ 9

Admission to modules and module examinations

(1) Generally speaking, a student is entitled to study a module if they are enrolled in the corresponding Master's programme offered by the Carl von Ossietzky University of Oldenburg or are obliged to take the module in question on the grounds of an ancillary clause in a letter of acceptance or another administrative act, insofar as grounds for exclusion do not apply under Section 23.2. Further details are set out in the degree-specific appendices.

(2) Students following Bachelor's programmes in a relevant subject can submit a founded application to take Master's modules and examinations ahead of time, completing these up to a total of 30 ECTS, as long as they have earned at least 120 ECTS in the Bachelor's programme. Modules that are compulsory for at least one degree programme with admission restrictions are not open to Bachelor's students.

(3) The examinations pertain to the modules and are held during the study programme. They must be sat at the end of the semester in which the last class or lecture of a module is offered.

(4) Students can apply to take module examinations in writing or electronically. Such requests must be made in good time before the date on which the examination is to take place. Students must register for written examinations at least one week before the examination is scheduled to take place; module coordinators are responsible for setting the registration deadlines for other types of examinations.

(5) Subject to the approval of the relevant Academic Commission, it may be stipulated in the degree-specific appendices that the successful completion of one or more other modules is a prerequisite for taking a module.

(6) Subject to the approval of the Academic Committee, admission to a module examination or the awarding of ECTS may be subject to the student's attendance record and/or active participation in one or more module activities, insofar as attendance or participation is required in order to achieve the learning outcomes of the class/lecture. These classes/lectures must convey the material in a practical and descriptive way or through dialogue between students and teachers.

(7) Students do not receive an individual grade for active participation, unlike other assignments and examination components which are required as part of a course. In some courses, students may be required to actively participate in discussions and debates among themselves and with the lecturers in order to acquire the necessary knowledge and skills for that particular course. Documented evidence of a student's active participation is a requirement for admission to the module examination. Students can meet this requirement by participating regularly in discussions, collaborating on tasks during classes/lectures and presenting solutions they have developed, etc. The applicable criteria for active participation are set out and clearly explained at the start of the course by the lecturer in consultation with the students. They are also laid down in writing. The assumed workload must be clarified and related to the total workload of the course or module in a meaningful way. The lecturer decides whether the criteria for active participation are met. The minimum requirement for active participation is that the student is physically present at all the required lectures and classes. If the student has compelling reasons for being unable to attend one or more classes or lectures for a course, these reasons must be reported immediately and in the appropriate form to the lecturer no later than the fourth occasion per semester and per course on which the student misses a classes or lecture. The student must also provide suitable evidence (e.g. medical certificate or similar). If the student has compelling reasons for being absent for a longer period of time, the student in question must agree a work plan with their lecturer detailing how they can still achieve the module's learning outcomes despite their absence. If the student is unable to attend more than half of the classes and lectures in one semester, it is not usually possible to create such a work plan.

§ 10

Structure of examinations, types of examinations

(1) The examinations pertain to the modules and take place during the study programme. There is generally one examination per module. Subject to the approval of the Academic Commission and the Faculty Councils, deviations from this rule may be permitted in exceptional cases with sufficient reason. Examinations may take the following forms:

- Written examination (10.2)
- Oral examination (10.3)
- Practical exercises (10.4)
- Formal presentation (10.5)
- Project (10.6)
- Practical work (10.7)
- Term paper / assignment (11.8)
- Portfolio (10.9)
- Multiple choice (10.10)
- Other types of examination (10.10)

(2) In a written examination, candidates must demonstrate that they can identify a problem and find a solution in a limited period of time and while under supervision, using the resources provided and in accordance with the current methods applicable for the subject area. Examinations usually last 90-180 minutes.

(3) An oral examination is conducted by two examiners or one examiner and one expert co-examiner and may be sat individually or in a group. Oral examinations usually last between 20 and 60 minutes per candidate. The main subjects of the examination, the assessment/grading of the examination performance and the considerations on which the assessment is based must be recorded in a report. This report is then signed by the examiner and, if applicable, the co-examiner.

(4) Practical exercises consist of a series of independent written work on subject-specific or interdisciplinary tasks. The amount of time required to complete such exercises depends on the module.

(5) A formal presentation comprises a written discussion of a problem (about 15 pages), which students write independently, in which they discuss and evaluate relevant literature, plus an oral presentation of the written work followed by a discussion (30 to 60 minutes). The presenting student is also expected to actively participate in discussions following presentations by other seminar participants.

(6) In a project, students are expected to take on an active role in their project group, i.e. by taking on project-related tasks, such as project management and chairing project meetings, cooperating on the design, creation and documentation of the system to be created, contributing to the preparation of the necessary reports, presenting partial and interim results, sharing project-relevant knowledge and completing other project-relevant tasks.

(7) Practical work includes the theoretical preparation, development and execution of a design task based on a case study or the performance of an experiment, plus a written paper detailing the work steps, progress and results of the experiment and the critical evaluation thereof.

(8) A seminar paper is an in-depth written assignment, which students complete on their own, that is either of an interdisciplinary nature or specific to their degree programme. It usually comprises no more than 25 pages.

(9) A portfolio usually comprises three to five assignments, for which the total student workload does not exceed that required for examinations within the meaning of Sections 10.2 to 10.8. A portfolio may not contain examination components as referred to in Section 10.1. Individual assignments are defined as followed:

- The creation and documentation of systems usually includes a description of the task and the limitations thereof, developing theoretical prerequisites for the task, in particular selecting suitable methods based on the discussion and evaluation of relevant literature, selecting suitable architectures, hardware components, modelling tools and software platforms, formulating algorithms used in a suitable modelling or programming language, testing the program in a simulated or real system environment, checking the results for correctness and documenting the solution to the problem, in particular by indicating the tools and methods used, the developed system components, the test environment and the results log.
- A log consists of the independent written documentation of the contents of a course.
- A short written examination usually lasts no more than 90 minutes.
- A short oral examination usually lasts no more than 20 minutes.
- A short formal presentation lasts no more than 20 minutes, whereby the student presents a subject in accordance with the current state of scientific knowledge using appropriate methods and media, plus a written report of no more than 10 pages.

Portfolios are assessed as a whole.

(10) Examinations can take the form of multiple choice questions either in part or in whole.

(11) Other types of examinations and assignments for which ECTS are awarded are also possible in addition to the above-mentioned module examinations if provided for and defined in the degree-specific appendices.

(12) If alternative forms of examination have been selected for a module, this will be announced accordingly at the beginning of each course.

(13) The examination usually takes place in the same language in which the course was taught.

(14) Module examinations in the form of group work (up to five students) are permitted. The scope and duration of an examination must be adjusted accordingly. In such cases, the examination component to be assessed for each individual candidate must be clearly defined and assessable as an individual examination component.

§ 11

Good academic practice

When submitting written work, including the Master's thesis, students must give written assurances in lieu of oath that they have produced and designed the work independently without using any sources and aids other than those stated, and that they worked in accordance with the general principles of academic work and publications as laid down in the regulations for safeguarding good academic practice at the University of Oldenburg. Written examinations are exempt from this rule.

§ 12

Support measures, protective provisions

(1) If the student can credibly demonstrate that they are unable to take examinations or submit assignments in whole or in part in the intended manner, form or time due to a disability or chronic illness, the Examining Board shall, upon application, grant appropriate measures to compensate for disadvantages. Possible measures include, but are not limited to, changing the external examination conditions, extending the time allowed, carrying out the examination in another equivalent form and providing technical aids.

(2) If the student can credibly demonstrate that they are unable to take examinations in whole or in part in the intended manner, form or time due to caring for a close relative or looking after their own child, the Examining Board can, upon application, grant appropriate measures to compensate for disadvantages. The protective provisions of the Maternity Protection Act and the Federal Parental Benefit and Parental Leave Act remain unaffected.

(3) Students may be requested to provide appropriate evidence.

§ 13

Assessment of the module examinations and the Master's thesis

(1) Each module is concluded with a module examination. If a pass is awarded in accordance with Section 13.2, the ECTS for that module will be awarded to the student.

(2) Generally speaking, all module examinations and the Master's thesis module are assessed and graded in accordance with Section 13.3. Students pass a graded module examination if they attain at least a "sufficient". If a module examination is not graded, it must be assessed as a pass or a fail. All module examinations and the assessment thereof take place in the same semester in which the module is taught. The requirements for resits are stipulated in Section 15. The types of examinations are stipulated in Section 10. Generally speaking, examiners must assess module examinations within six weeks and pass on the grades they award to the Examinations Office.

(3) The following scale must be used for grading:

1	= very good:	an outstanding performance
2	= good:	above average performance
3	= satisfactory:	average performance in all respects
4	= sufficient:	the basic standards have been met but with a number of shortcomings
5	= insufficient:	a performance that does not meet the requirements due to notable shortcomings

For a differentiated assessment, grades may be rounded up or down by 0.3 (grades of 0.7, 4.3, 4.7 and 5.3 are not permitted).

(4) If the module descriptions provide for this, the grade of a passed module examination can be improved by bonuses up to a maximum of half a grade (0.5). Bonuses are course-related examinations as described in Sections 10.40 and 10.9 for the portfolio. It must be possible to achieve the highest grade without bonuses.

§ 14

Withdrawal, absence, cheating

(1) A fail is awarded for an examination component if the candidate

- without valid grounds, fails to appear on the date of an examination
- withdraws after the start of the examination
- does not resit an examination within the designated time limit

(2) Students may withdraw from an examination component without stating reasons up to one week before the date on which the examination is scheduled to take place. After that, withdrawal is only possible if valid reasons are given and accepted.

(3) The Examining Board must be notified without delay and in writing of any valid reasons for withdrawal or absence, and evidence must be provided. Otherwise, a fail will be awarded for the examination component in question. In the event of illness, a medical certificate must be submitted. If the reason or reasons given are accepted, a new deadline will be set. As a rule, this will be the next regular examination date. In this case, examination results already obtained will remain valid.

4) If the deadline for an examination component is not met, and no valid reasons are given, that component is deemed to have been failed. Paragraph 3, clauses 1 to 4, will apply mutatis mutandis. In cases in which there are valid reasons for not meeting a deadline, the Examining Board will decide whether the deadline for the component can be extended, whether the results of that postponed component can count towards the final assessment or whether a new deadline can be set, taking into account the principles of equal opportunity and the precedence of academic achievements over compliance with procedural rules.

(5) If a candidate attempts to influence the result of their performance in an examination by means of cheating or by other unauthorised means, the examination will be graded as a fail. Individuals who have violated the examination regulations may be barred from continuing the examination component concerned. In that case, the examination component in question will be graded as a fail.

Before a decision is taken by the Examining Board in line with clauses 1 and 2 of Section 14.5, the candidate will have the opportunity to be heard. The student will continue the examination until the Examining Board has taken a decision, unless the invigilator decides that temporary exclusion of the student is necessary for the proper conduct of the examination. In serious or repeated cases of fraud, the Examining Board may bar the student from the examination procedure. In such instances, students will automatically be awarded a fail for the programme's Master's examination.

§ 15

Resits of module examinations and the Master's thesis, free attempt

(1) Students have two opportunities to resit module examinations or parts of module examinations that they have failed. Exceptions include

- the project in the module inf900 Project Group,
- the project in the module inf5124 Research Project Digitalised Energy Systems and
- the Master's thesis, which may only be resat once.

The period between the first examination in a module and the last corresponding re-sit should not exceed 18 months, or 24 months for the project in the module inf900 Project Group. If a student fails all the resits, they are awarded a fail for the module examination.

(2) Unsuccessful attempts to take an examination component or complete the Master's thesis in the same degree programme or a related subject at another university or equivalent institution for higher education in Germany or another European country will count towards the resit possibilities in accordance with paragraph 1.

(3) Provided the degree-specific appendices do not contain any regulations to the contrary, a student may be given a free attempt to improve their grade for a module examination taken within the standard period of study, if that examination was an oral or written examination. Students may, upon request, also resit an examination that they passed on the first occasion. In such cases they sit the examination on the next scheduled examination date. The best result counts. There is no free attempt for the Master's thesis module or for the project in the module inf900 Project Group.

(4) The new topic for the Master's thesis must be assigned within an appropriate period, usually within three months after the first thesis was awarded a fail.

§ 16

Certificates and transcripts

(1) If a student has successfully completed all the modules necessary for the Master's degree and they satisfy all the requirements, a certificate will be issued without delay (Appendix 1.2). If the programmes were taught in English, or upon request, this certificate will be issued in English. The certificate will be accompanied by an overview of the module examinations passed (Transcript of Records) and a Diploma Supplement (in English). The date on the certificate is the date on which the final module was passed.

(2) If a Master's programme is definitively failed, the student will receive a document to this effect.

If a student leaves the university or switches to a different course of study, a certificate will be drawn up that shows the examination components passed and the grades and credit points obtained. In the case of Section 2, a certificate will be issued stating that the master's examination in this degree programme has been definitively failed.

§ 17

Invalidity of examination results

(1) If a candidate has cheated during an examination and this does not become known until after the grade has been determined or a certificate has been issued, the Examining Board may adjust the grades retroactively for the examination components concerned, and declare the examination to be totally or partly failed.

(2) The candidate will have the opportunity to make a statement before the Examining Board before a decision is taken.

(3) The incorrect certificate will be cancelled and replaced by a correct certificate. The Master's certificate shall also be withdrawn with the incorrect examination certificate if the examination was deemed to have been failed due to cheating.

§ 18

Access to examination records

On request, after completing a module examination or the Master's thesis, a candidate is entitled to view the written examination papers, the examiner's comments, and the examination records. Such a request must be made within a year of notification of the grades, or notification that the student has failed the examination. The Examining Board will determine the place and time of the candidate's access to their records.

§ 19

Appeal procedure

(1) An appeal can be made against a decision based on the assessment of an examination component (assessment decision) within one month of notification of the corresponding examination decision according to Section 68 et seqq. of the Administrative Procedures Code (VwGO).

(2) The Examining Board will decide on the appeal. Before taking a decision, the Examining Board will inform the examiner of the appeal so that they can review the grading. If the examiner changes the grade as a result of the appeal, the Examining Board will uphold the appeal. Otherwise, the examining board will review the decision on the basis of the examiner's opinion, in particular to see whether

- the examination was conducted in a proper manner
- the grading was based on incorrect information
- general marking principles were adhered to
- an acceptable solution substantiated by consistent and sound arguments was judged incorrect
- the examiner was influenced by irrelevant considerations

The same applies if an appeal is lodged against an assessment by more than one examiner.

(3) The Examining Board may appoint a reviewer to carry out the review in accordance with paragraph 2 sentence 4. The reviewer must have a qualification that is at least equal or equivalent to the qualification established by the examination.

(4) The Examining Board shall appoint another person authorised to conduct examinations pursuant to Section 7 and not previously involved in the assessment of this examination to reassess the examination component if

the competent Examining Board

finds a breach according to paragraph 2 sentence 4 and

has not already upheld the appeal at this stage of the proceedings

and

the examiner does not change their assessment decision accordingly.

If the type of examination does not allow for a reassessment, the examination shall be retaken.

(5) An appeal procedure cannot lead to the examination grade being lowered.

§ 20

Admission to the Master's thesis phase

(1) For admission to the Master's thesis, students must be enrolled in the corresponding Master's degree programme at the University of Oldenburg and have demonstrated they possess the necessary knowledge to undertake the Master's thesis by successfully completing modules with a student workload of at least 60 credit points.

(2) Applicants for admission to the Master's thesis must submit the following documents:

- a proposal for the two examiners
- a proposal submitted by the first examiner regarding the topic of the thesis

a declaration as to whether a Master's examination or parts of such an examination or another examination in a related subject area at a university or equivalent institution for higher education in Germany or another European country have been definitively failed or whether the student is currently involved in an examination procedure

If applicable, proof that, at the time of the admission decision, the applicant lacks the competences that were the subject of an incidental provision to the admission decision on the basis of the relevant admission regulations.

(3) The Examining Board will decide on admission. Admission will be denied if:

- the admission requirements are not met
- the documents provided are incomplete
- the Master's examination or another examination has already been definitively failed in the same degree programme at another university or equivalent institution for higher education in Germany or in the European Higher Education Area.

§ 21

Master's thesis module

(1) The Master's thesis module consists of the Master's thesis, an accompanying colloquium and a final colloquium which is open to the rest of the university. The Master's thesis should show that a candidate is capable of working independently on a problem from the chosen subject of study, within a fixed period of time using academic methods. The topic and assignment of the Master's thesis must correspond to the purpose of the examination (in accordance with Section 3) and the period of time allowed for the thesis according to paragraph 6. The nature of the assignment and its implementation must be established when the topic is assigned. In the final colloquium, which is open to the rest of the university, the candidates defend their Master's thesis in a presentation (30 to 45 minutes) followed by a discussion.

(2) The topic of the Master's thesis may be set by any professor or lecturer at the Carl von Ossietzky University of Oldenburg who is involved in teaching the Master's programme in question (first examiner). In justified individual cases, the Examining Board may approve a topic set by other examiners in accordance with Section 7. The topic of the Master's thesis will be assigned via the Chair of the Examining Board, and the assignment of the topic must be put on record. At the request of the student, the Examining Board will ensure that the student is assigned a topic. Upon assignment of the topic, the examiner who has set the topic (the first examiner) and the second examiner are appointed in accordance with Section 7. The student will be supervised by the first examiner while working on the Master's thesis.

(3) Students may work on the Master's thesis in the form of group work. In such cases, the examination component to be assessed for each individual candidate must be clearly defined and assessable as an individual examination component, e.g. based on chapters, page numbers or other objective criteria, and must meet the requirements laid down in Section 21.1. The group shall comprise no more than three students.

(4) As a rule, the Master's thesis must be submitted within six months of the topic being assigned. Students may submit a well-founded request to the Examining Board to extend this period to nine months.

(5) A Master's thesis topic can only be changed once, and only before the end of the first third of the total time available, i.e. two or three months, depending on the amount of time the student has been granted in accordance with Section 21.4. If a student has to resit the Master's thesis module, a Master's thesis topic may only be changed if the original topic for the first attempt was not changed.

(6) The Master's thesis must be written in either German or English. More information can be found in the degree-specific appendices.

(7) The Master's thesis must be submitted to the Examination Office in triplicate by the deadline; the time of submission must be recorded.

§ 22

Assessment of the Master's thesis module

(1) The Master's thesis module is assessed in writing by the first examiner and the second examiner and in accordance with Section 13.3. The first and second examiners are required to document the main considerations on which the assessment was based. When assessing and evaluating the thesis, the examiners also take into account the student's progress while working on the thesis as well as the presentation at the final colloquium. If students worked as a group to complete their thesis, each student's individual contribution will be assessed as part of the overall work. Justification for the assessment is included in the examination records along with the thesis. The presentation at the final colloquium and the assessment and evaluation procedure usually take place within twelve weeks of the student submitting the Master's thesis.

(2) Upon submission of the thesis, the candidate may request that both examiners announce whether they have passed within a period of four weeks.

(3) A student passes the Master's thesis module if both examiners award at least a sufficient for the thesis itself and a pass for the presentation at the final colloquium. The grade awarded for a Master's thesis module is the average of the individual grades awarded for the various assessment components in accordance with Section 13.

§ 23

Overall result, ECTS grade, additional examinations

(1) The Master's examination is considered to have been concluded successfully once 120 ECTS credit points have been attained in accordance with the degree-specific appendix for these examination regulations and all module examinations including the Master's thesis have been passed.

(2) The Master's examination is awarded a definitive fail within the meaning of Section 15.1 if the student fails a compulsory module, two elective modules, the project in the module inf900 Project Group or the Master's thesis module after exhausting all possibilities to resit those components.

(3) The overall grade of the Master's examination is the average of the grades (which are weighted according to the credit points) awarded for the module examinations and for the Master's thesis module. The overall grade is accompanied by 'passed with distinction' if the overall result is between 1.0 and 1.1.

(4) The overall grade is supplemented by an ECTS grade, which reflects a relative assessment of the grade in addition to the absolute assessment. The ECTS grade demonstrates how a student has performed in relation to other students in the same degree programme. Successful students receive the following grades:

A the top 10%

B the next 25%

C the next 30%

D the next 25%

E the next 10%

(5) The relevant grades awarded during the previous six semesters (cohort) before the date of the degree examination form the basis for the ECTS grade. An ECTS grade is issued if there are at least 30 graduates in the cohort.

Students may take examinations for modules other than those required for the Master's degree programme (additional examinations). Upon request, the results of the additional examinations will be included in the overview attached to the certificate (Academic Record) but they will not be taken into account when calculating the final overall grade.

Appendix 1
Academic transcripts and degree certificates

Anlage 1.1 a

Carl von Ossietzky Universität Oldenburg
Fakultät für Informatik, Wirtschafts- und Rechtswissenschaften

Masterurkunde

Frau/Herr*)

geboren am

in

hat den Masterstudiengang

[mit Schwerpunkt.....

an der Carl von Ossietzky Universität Oldenburg mit der Gesamtnote erfolgreich
abgeschlossen.

Ihr/Ihm*) wird der Hochschulgrad

Master of Science (M.Sc.)

verliehen.

Oldenburg, den

Siegel

.....
Die Dekanin/Der Dekan*)

.....
Die/Der*) Vorsitzende des
Prüfungsausschusses des Master-
studiengangs

*)1 Notenskala: Mit Auszeichnung bestanden, sehr gut, gut, befriedigend, ausreichend

*)2 Zutreffendes einsetzen

Anlage 1.1 b

School of Computing Science, Business Administration, Economics, and Law
Carl von Ossietzky University Oldenburg

Master of Science Diploma

Ms./Mr.,

place of birth:,

date of birth:,

was admitted to the Degree of

"Master of Science in"

[with specialization in]

Date

Seal

.....
The Dean of School *)

.....
The Chairman of the Examination Board

*)1 select as applicable

2 Grading scale: With Distinction, Very Good, Good, Satisfactory, Sufficient

Anlage 1.2 a

Carl von Ossietzky Universität Oldenburg

- Fakultät für Informatik, Wirtschafts- und Rechtswissenschaften -

Zeugnis

über den erfolgreichen Abschluss des Masterstudiengangs

Frau/Herr*)

geboren am

in

hat den Masterstudiengang

[mit dem Schwerpunkt**]

an der Carl von Ossietzky Universität Oldenburg mit der Gesamtnote erfolgreich abgeschlossen.

Masterarbeit:

Note der Masterarbeit:

Liste der Module mit Noten.....

Oldenburg, den

Siegel

.....
Die/Der*) Vorsitzende des Prüfungsausschusses
des Masterstudiengangs

*)1 Notenskala: Mit Auszeichnung bestanden, sehr gut, gut, befriedigend, ausreichend

*)2 Zutreffendes einsetzen

Anlage 1.2 b

School of Computing Science, Business Administration, Economics, and Law
Carl von Ossietzky University Oldenburg
Certificate and Academic Record

Ms./Mr.

born

in

has successfully completed the Master Programme

(with specialization in) at the University of with the overall grade

Subject of Master's thesis:

Grade of Master's thesis:

List containing the modules passed and results:

Date

Official Seal

.....
Chair of the Examination Bo

*)1 select as applicable

2 Grading scale: With Distinction, Very Good, Good, Satisfactory, Sufficient

Appendix 2

Master's modules offered by the Department of Computing Science

The following abbreviations are used in the module table:

- MA: Master's thesis
- P: Practical Course / Practical Training
- PG: Project Group
- S: Seminar
- V: Lecture
- Ü: Tutorial / Exercise
- TPS: Theory-Practice-Seminar
- PR: Project

Module abbreviation	Module label (German)	Module label (English)	Type and Quantity of Courses	CP	Type and Quantity of module examination*
mam	Masterarbeitsmodul	Master Thesis Module	1S	30	Anfertigung der Masterarbeit
mam	Masterarbeitsmodul Informatik	Master Thesis Module Computer Science	1S	30	Anfertigung der Masterarbeit
mam	Masterarbeitsmodul Wirtschaftsinformatik	Master Thesis Module Business Informatics	1S	30	Anfertigung der Masterarbeit
mam	Master Thesis Module Digitalised Energy Systems	Master Thesis Module Digitalised Energy Systems	1S	30	Anfertigung der Masterarbeit
inf900	Projektgruppe	Project Group	1 PG	24	Projekt
inf006	Softwaretechnik II	Software Engineering II	1 V 1 S	6	Portfolio
inf008	Informationssysteme II	Information Systems II	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf018	Medienverarbeitung	Media Processing	1 V 1 Ü	6	Projekt und mündliche Prüfung oder Projekt und Klausur
inf040	Einführung in Data Science	Introduction to Data Science	1V 1 Ü	6	Klausur oder mündliche Prüfung oder Portfolio oder Projekt oder fachpraktische Übung
inf100	Mensch-Maschine-Interaktion	Human Computer Interaction	1 V 1 Ü	6	Portfolio
inf105	Fehlertoleranz in verteilten Systemen	Fault tolerance in distributed Systems	1 V 1 Ü oder 1 V 1 S	6	Klausur oder mündliche Prüfung oder Praktische Arbeit
inf108	Requirements-Engineering und Management	Requirements Engineering and Management	1 V 1 Ü	6	Portfolio
inf109	Informationssysteme III	Information Systems III	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf111	Fortgeschrittenenpraktikum Datenbanken	Advanced Database Lab	1 Ü	6	Fachpraktische Übungen und mündliche Prüfung
inf112	Moderne Programmiertechnologien	Modern Programming Technologies	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung

*Types of module examinations:

Klausur = written examination, mündliche Prüfung = oral examination, fachpraktische Übung = practical exercises, Referat = Formal presentation, Projekt = Project, Praktische Arbeit = Practical work, Hausarbeit = Term paper / assignment, Portfolio = Portfolio, Antwort-Wahl-Verfahren = Multiple Choice

inf113	Betriebssysteme II	Operating Systems II	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf1202	Fortgeschrittenenpraktikum 'Data Science'	Advanced Practical Course 'Data Science'	1P	6	1 Prüfungsleistung (Portfolio oder Projekt oder Praktische Arbeit) oder 2 Prüfungsleistungen (Fachpraktische Übungen und mündliche Prüfung)
inf1204	Spezielle Themen aus dem Gebiet 'Data Science'	Special topics from the field of 'Data Science'	2 Veranst. aus V, S, Ü, P	6	Referat oder mündliche Prüfung oder Portfolio oder Klausur
inf1206	Aktuelle Themen aus dem Gebiet 'Data Science' I	Hot topics from the field of 'Data Science' I	1V oder 1S	3	Referat oder mündliche Prüfung
inf1210	Practical multimodal-multisensor data analysis pipelines	Practical multimodal-multisensor data analysis pipelines	1 V 1 Ü oder 1 S 1 Ü	6	mündl. Prüfung oder praktische Arbeit oder Hausarbeit
inf1212	Designing Explainable Artificial Intelligence	Designing Explainable Artificial Intelligence	1S + 1 Ü	6	Praktische Arbeit oder Hausarbeit
inf131	Advanced Topics in Human Computer Interaction	Advanced Topics in Human Computer Interaction	1 V 1 Ü	6	Projekt und mündliche Prüfung
inf170	Spezielle Themen aus dem Gebiet 'Informationssysteme' I	Special Topics in 'Information Systems' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf171	Spezielle Themen aus dem Gebiet 'Informationssysteme' II	Special Topics in 'Information Systems' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf172	Aktuelle Themen aus dem Gebiet 'Informationssysteme' I	Current Topics in 'Information Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf173	Aktuelle Themen aus dem Gebiet 'Informationssysteme' II	Current Topics in 'Information Systems' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf174	Spezielle Themen aus dem Gebiet 'Medieninformatik und Multimedia-Systeme' I	Special Topics in 'Media Informatics and Multimedia Systems' I	1 V 1 Ü	6	Portfolio oder Referat oder mündliche Prüfung
inf175	Spezielle Themen aus dem Gebiet 'Medieninformatik und Multimedia-Systeme' II	Special Topics in 'Media Informatics and Multimedia Systems' II	2 Veranst. aus V, S, Ü, P	6	Portfolio oder Referat oder mündliche Prüfung
inf176	Aktuelle Themen aus dem Gebiet 'Medieninformatik und Multimedia-Systeme' I	Current Topics in 'Media Informatics and Multimedia Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf177	Aktuelle Themen aus dem Gebiet 'Medieninformatik und Multimedia-Systeme' II	Current Topics in 'Media Informatics and Multimedia Systems' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf178	Spezielle Themen aus dem Gebiet 'Softwaretechnik' I	Special Topics in 'Software Engineering' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung

*Types of module examinations:

Klausur = written examination, mündliche Prüfung = oral examination, fachpraktische Übung = practical exercises, Referat = Formal presentation, Projekt = Project, Praktische Arbeit = Practical work, Hausarbeit = Term paper / assignment, Portfolio = Portfolio, Antwort-Wahl-Verfahren = Multiple Choice

inf179	Spezielle Themen aus dem Gebiet 'Softwaretechnik' II	Special Topics in 'Software Engineering' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf180	Aktuelle Themen aus dem Gebiet 'Softwaretechnik' I	Current Topics in 'Software Engineering' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf181	Aktuelle Themen aus dem Gebiet 'Softwaretechnik' II	Current Topics in 'Software Engineering' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf182	Spezielle Themen aus dem Gebiet 'Systemsoftware und verteilte Systeme' I	Special Topics in 'System Software and Distributed Systems' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf183	Spezielle Themen aus dem Gebiet 'Systemsoftware und verteilte Systeme' II	Special Topics in 'System Software and Distributed Systems' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf184	Aktuelle Themen aus dem Gebiet 'Systemsoftware und verteilte Systeme' I	Current Topics in 'System Software and Distributed Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf185	Aktuelle Themen aus dem Gebiet 'Systemsoftware und verteilte Systeme' II	Current Topics in 'System Software and Distributed Systems' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf189	Spezielle Themen der Praktischen Informatik I	Special Topics in Practical Computer Science I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf191	Spezielle Themen der Praktischen Informatik II	Special Topics in Practical Computer Science II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf203	Embedded Systems I	Embedded Systems I	1V 1 Ü	6	Klausur oder mündliche Prüfung
inf204	Embedded Systems II	Embedded Systems II	1V 1 Ü	6	Klausur oder mündliche Prüfung
inf300	Hybride Systeme	Hybrid Systems	1 V 1 Ü	6	Projekt
inf301	Hardwarenahe Systementwicklung	Machine-oriented Systems Engineering	1 V 1 P	6	Portfolio
inf303	Fuzzy-Regelung und künstliche neuronale Netze in Robotik und Automation	Fuzzy control and Artificial Neural Networks in Robotics and Automation	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung
inf305	Medizintechnik	Medical Technology	1 V 1 Ü	6	Portfolio
inf307	Robotik	Robotics	1 V 1 Ü	6	Portfolio oder Klausur oder mündliche Prüfung
inf308	Mikrorobotik II	Microrobotics II	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung
inf311	Low Energy System Design	Low Energy System Design	1 V 1 Ü	6	Projekt oder Fachpraktische Übungen mit mündlicher Prüfung
inf331	Automated and Connected Driving	Automated and Connected Driving	1 V 1 Ü	6	Praktische Arbeit oder mündliche Prüfung

*Types of module examinations:

Klausur = written examination, mündliche Prüfung = oral examination, fachpraktische Übung = practical exercises, Referat = Formal presentation, Projekt = Project, Praktische Arbeit = Practical work, Hausarbeit = Term paper / assignment, Portfolio = Portfolio, Antwort-Wahl-Verfahren = Multiple Choice

inf332	Practice Robotics	Practice Robotics	1 V 1 Ü	6	Referat und Hausarbeit
inf334	System Level Design	System Level Design	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung
inf336	Application Area Automotive	Application Area Automotive	1 V 1 Ü	6	Praktische Arbeit oder mündliche Prüfung
inf338	Design of Autonomous Systems	Design of Autonomous Systems	1 V 1 Ü	6	Referat
inf339	Industrie 4.0: Digitalisierung der industriellen Produktion	Industry 4.0: Digitalization in Industrial Manufacturing	1 V	6	mündliche Prüfung
inf340	Uncertainty Modeling for Control in Digitalised Energy Systems	Uncertainty Modeling for Control in Digitalised Energy Systems	1V 1Ü	6	Portfolio oder Klausur
inf341	Robust Control and State Estimation in Digitalised Energy Systems	Robust Control and State Estimation in Digitalised Energy Systems	1V 1Ü	6	Portfolio oder Klausur
inf350	Spezielle Themen aus dem Gebiet 'Sicherheitskritische Systeme' I	Special Topics in 'Safety-Critical Systems' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf351	Spezielle Themen aus dem Gebiet 'Sicherheitskritische Systeme' II	Special Topics in 'Safety-Critical Systems' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf352	Aktuelle Themen aus dem Gebiet 'Sicherheitskritische Systeme' I	Current Topics in 'Safety-Critical Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf353	Aktuelle Themen aus dem Gebiet 'Sicherheitskritische Systeme' II	Current Topics in 'Safety-Critical Systems' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf354	Spezielle Themen aus dem Gebiet 'Hybride Systeme' I	Special Topics in 'Hybrid Systems' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf355	Spezielle Themen aus dem Gebiet 'Hybride Systeme' II	Special Topics in 'Hybrid Systems' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf356	Aktuelle Themen aus dem Gebiet 'Hybride Systeme' I	Current Topics in 'Hybrid Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf357	Aktuelle Themen aus dem Gebiet 'Hybride Systeme' II	Current Topics in 'Hybrid System' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf358	Spezielle Themen aus dem Gebiet 'Hardware-/Software-Systeme' I	Special Topics in 'Hardware/Software Systems' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf359	Spezielle Themen aus dem Gebiet 'Hardware-/Software-Systeme' II	Special Topics in 'Hardware/Software Systems' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung

*Types of module examinations:

Klausur = written examination, mündliche Prüfung = oral examination, fachpraktische Übung = practical exercises, Referat = Formal presentation, Projekt = Project, Praktische Arbeit = Practical work, Hausarbeit = Term paper / assignment, Portfolio = Portfolio, Antwort-Wahl-Verfahren = Multiple Choice

inf360	Aktuelle Themen aus dem Gebiet 'Hardware/ Software Systeme' I	Current Topics in 'Hardware/Software Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf361	Aktuelle Themen aus dem Gebiet 'Hardware/ Software Systeme' II	Current Topics in 'Hardware/Software Systems' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf366	Spezielle Themen aus dem Gebiet 'Mikrorobotik und Regelungstechnik' I	Special Topics in 'Microrobotics and Control Engineering' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf367	Spezielle Themen aus dem Gebiet 'Mikrorobotik und Regelungstechnik' II	Special Topics in 'Microrobotics and Control Engineering' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf368	Aktuelle Themen aus dem Gebiet 'Mikrorobotik und Regelungstechnik' I	Current Topics in 'Microrobotics and Control Engineering' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf369	Aktuelle Themen aus dem Gebiet 'Mikrorobotik und Regelungstechnik' II	Current Topics in 'Microrobotics and Control Engineering' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf374	Spezielle Themen aus dem Gebiet 'Automotive' I	Special Topics in 'Automotive' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf375	Spezielle Themen aus dem Gebiet 'Automotive' II	Special Topics in 'Automotive' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf376	Aktuelle Themen aus dem Gebiet 'Automotive' I	Current Topics in 'Automotive' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf377	Aktuelle Themen aus dem Gebiet 'Automotive' II	Current Topics in 'Automotive' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf378	Spezielle Themen der Technischen Informatik I	Special Topics in Technical Computer Science I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf379	Spezielle Themen der Technischen Informatik II	Special Topics in Technical Computer Science II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf455	Model Checking	Model Checking	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf456	Real-Time Systems	Real Time Systems	1 V 1 Ü	6	Fachpraktische Übungen oder Klausur oder mündliche Prüfung
inf462	Cryptography	Cryptography	1V 1Ü	6	Klausur oder mündliche Prüfung
inf481	Software Analysis	Software Analysis	1V 1Ü	6	Klausur oder mündliche Prüfung

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Klausur = written examination, mündliche Prüfung = oral examination, fachpraktische Übung = practical exercises, Referat = Formal presentation, Projekt = Project, Praktische Arbeit = Practical work, Hausarbeit = Term paper / assignment, Portfolio = Portfolio, Antwort-Wahl-Verfahren = Multiple Choice

inf484	Spezielle Themen aus dem Gebiet 'Entwicklung korrekter Systeme' I	Special Topics in 'Correct Systems Design' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf485	Spezielle Themen aus dem Gebiet 'Entwicklung korrekter Systeme' II	Special Topics in 'Correct Systems Design' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf486	Aktuelle Themen aus dem Gebiet 'Entwicklung korrekter Systeme' I	Current Topics in 'Correct Systems Design' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf487	Aktuelle Themen aus dem Gebiet 'Entwicklung korrekter Systeme' II	Current Topics in 'Correct Systems Design' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf489	Spezielle Themen aus dem Gebiet 'Formale Methoden'	Special Topics in 'Formal Methods'	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf490	Aktuelle Themen aus dem Gebiet 'Formale Methoden'	Current Topics in 'Formal Methods'	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf491	Aktuelle Themen der Theoretischen Informatik I	Current Topics in Theoretical Computer Science I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf492	Spezielle Themen der Theoretischen Informatik I	Special Topics in Theoretical Computer Science I	2 Veranst. aus V, S, Ü, P, PR	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf493	Spezielle Themen der Theoretischen Informatik II	Special Topics in Theoretical Computer Science II	2 Veranst. aus V, S, Ü, P, PR	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf494	Aktuelle Themen aus dem Gebiet 'Modellierung und Analyse komplexer Systeme' I	Current Topics in 'Modeling and Analysis of Complex Systems' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf495	Aktuelle Themen aus dem Gebiet 'Modellierung und Analyse komplexer Systeme' II	Current Topics in 'Modeling and Analysis of Complex Systems' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf496	Aktuelle Themen aus dem Gebiet 'Formale Methoden'	Current Topics in 'Formal Methods'	1V oder 1S	3	Referat oder mündliche Prüfung
inf502	Simulation	Simulation	1 V 1 S 1 P	6	Portfolio
inf510	Energieinformationssysteme	Energy Information Systems	1 V 1 S	6	Referat oder Hausarbeit
inf5100	Digital Technology on Energy Markets	Digital Technology on Energy Markets	1V 1Ü	6	Klausur oder mündliche Prüfung
inf5102	Power System Components, Networks, Operation	Power System Components, Networks, Operation	1V	6	Klausur
inf5104	Fundamentals of Game Theory in Energy Systems	Fundamentals of Game Theory in Energy Systems	1V 1Ü	6	Portfolio oder Klausur

*Types of module examinations:

Klausur = written examination, mündliche Prüfung = oral examination, fachpraktische Übung = practical exercises, Referat = Formal presentation, Projekt = Project, Praktische Arbeit = Practical work, Hausarbeit = Term paper / assignment, Portfolio = Portfolio, Antwort-Wahl-Verfahren = Multiple Choice

inf5106	Optimal and Model-Predictive Control	Optimal and Model-Predictive Control	1V 1Ü	6	Portfolio oder Klausur
inf5110	Practical Course (Energy Informatics)	Practical Course (Energy Informatics)	1PR	15	Portfolio
inf5112	Digitalised Energy System Modeling and Control	Digitalised Energy System Modeling and Control	1V 1Ü	6	Klausur oder mündliche Prüfung
inf5114	Digitalised Energy System Requirements Engineering	Digitalised Energy System Requirements Engineering	1V 1Ü	6	Hausarbeit
inf5118	Decentralised Nonlinear Model-Based Control in Digitalised Energy Systems	Decentralised Nonlinear Model-Based Control in Digitalised Energy Systems	1V 1Ü	6	Portfolio oder Klausur
inf5120	Digitalised Energy System Co-Simulation	Digitalised Energy System Co-Simulation	1PR	6	Praktische Arbeit
inf5122	Learning-Based Control in Digitalised Energy Systems	Learning-Based Control in Digitalised Energy Systems	1V 1Ü	6	Portfolio oder Klausur
inf5124	Research Project Digitalised Energy Systems	Research Project Digitalised Energy Systems	1PR	15	Portfolio oder Projekt
inf5126	Digitalised Energy System Cyber-Resilience	Digitalised Energy System Cyber-Resilience	1V oder 1S	3	Hausarbeit
inf5128	AI in Energy Systems	AI in Energy Systems	1V oder 1S	3	Hausarbeit
inf5130	Socio-technical Energy Systems	Socio-technical Energy Systems	1V oder 1S	3	Hausarbeit
inf511	Smart Grid Management	Smart Grid Management	1 V 1 Ü	6	mündliche Prüfung oder Klausur
inf513	Praktikum Energieinformatik	Energy Informatics Lab	1 P	6	mündliche Prüfung
inf514	Simulation-based Smart Grid Engineering and Assessment	Simulation-based Smart Grid Engineering and Assessment	1V 1Ü	6	mündliche Prüfung oder Klausur
inf515	Intelligente Energiesysteme	Intelligent Energy systems	1 V 1 Ü	6	Portfolio oder mündliche Prüfung oder Klausur
inf516	Distributed Operation in Digitalised Energy Systems	Distributed Operation in Digitalised Energy Systems	1V 1Ü	6	Portfolio oder mündliche Prüfung oder Klausur
inf524	Medizinische Grundlagen	Medical Basics	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf525	Medizinische Informatik I	Medical Informatics I	1V 1Ü	6	Klausur oder mündliche Prüfung
inf526	Medizinische Informatik II	Medical Informatics II	1V 1Ü	6	Portfolio, Klausur, fachpraktische Übung oder mündliche Prüfung
inf527	Big Data Analytics und Clinical Decision Support	Big Data Analytics und Clinical Decision Support	1V 1Ü	6	Portfolio, Klausur, fachpraktische Übung oder mündliche Prüfung
inf535	Computational Intelligence I	Computational Intelligence I	1 V 1 Ü	6	Mündliche Prüfung oder Klausur
inf536	Computational Intelligence II	Computational Intelligence II	1 V 1 Ü	6	Mündliche Prüfung oder Klausur

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inf537	Intelligent Systems	Intelligent Systems	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung oder Fachpraktische Übungen und Klausur oder Portfolio
inf538	Management von IT-Dienstleistungen	Management of IT-Services	1 V 1 Ü 1 S	6	Portfolio
inf5400	Fortgeschrittene Themen des angewandten Deep Learnings	Advanced Topics in Applied Deep Learning	1V 1Ü	6	Klausur oder mündl. Prüfung oder Projekt
inf541	Data Challenge	Data Challenge	1 PR	6	Portfolio
inf5402	Vertrauenswürdigen Maschinelles Lernen	Trustworthy Machine Learning	1V 1Ü	6	Klausur oder mündl. Prüfung
inf5406	Medizinische Datenanalyse mit Deep Learning	Medical Data Analysis with Deep Learning	1V 1Ü	6	Klausur oder mündl. Prüfung oder Projekt
inf5408	Angewandtes Deep Learning in PyTorch	Applied Deep Learning in PyTorch	1V 1Ü	6	Klausur oder mündl. Prüfung
inf5450	Aktuelle Themen des angewandten Deep Learnings	Current topics in applied deep learning	1S	3	mündl. Prüfung oder Portfolio oder Referat
inf5452	Aktuelle Themen des Vertrauenswürdigen Maschinellen Lernen	Current Topics in Trustworthy Machine Learning	1S	3	mündl. Prüfung oder Portfolio oder Referat
inf5454	Aktuelle Themen des Maschinellen Lernen in der (Bio-)medizin	Current Topics of Machine Learning in (bio-)medicine	1S	3	mündl. Prüfung oder Portfolio oder Referat
inf5456	Applied AI - Multimodal-Multisensor Interfaces I: Foundations, User Modeling, and Common Modality Combination	Applied AI - Multimodal-Multisensor Interfaces I: Foundations, User Modeling, and Common Modality Combination	1S	3	mündl. Prüfung oder Portfolio oder Referat
inf5458	Applied AI - Multimodal-Multisensor Interfaces II: Signal Processing, Architectures, and Detection of Emotion and Cognition	Applied AI - Multimodal-Multisensor Interfaces II: Signal Processing, Architectures, and Detection of Emotion and Cognition	1S	3	mündl. Prüfung oder Portfolio oder Referat
inf5460	Applied AI - Multimodal-Multisensor Interfaces III: Language Processing, Software, Commercialization, and Emerging Directions	Applied AI - Multimodal-Multisensor Interfaces III: Language Processing, Software, Commercialization, and Emerging Directions	1S	3	mündl. Prüfung oder Portfolio oder Referat
inf579	Special Topics in 'Digitalised Energy Systems' I	Special Topics in 'Digitalised Energy Systems' I	1V 1 Ü	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf581	Special Topics in 'Digitalised Energy Systems' II	Special Topics in 'Digitalised Energy Systems' II	1V 1 Ü	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf584	Special Topics in 'Energy Informatics' I	Special Topics in 'Energy Informatics' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung

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inf585	Special Topics in 'Energy Informatics' II	Special Topics in 'Energy Informatics' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf586	Current Topics in 'Energy Informatics' I	Current Topics in 'Energy Informatics' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf587	Current Topics in 'Energy Informatics' II	Current Topics in 'Energy Informatics' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf588	Spezielle Themen aus der medizinischen Informatik	Special Topics in 'Medical Informatics' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf589	Spezielle Themen aus der medizinischen Informatik	Special Topics in 'Medical Informatics' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf590	Aktuelle Themen aus der medizinischen Informatik	Current Topics in 'Medical Informatics'	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf591	Current Topics in 'Digitalised Energy Systems'	Current Topics in 'Digitalised Energy Systems'	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf592	Spezielle Themen aus dem Gebiet 'Applied Artificial Intelligence' I	Special Topics in 'Applied Artificial Intelligence' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf593	Spezielle Themen aus dem Gebiet 'Applied Artificial Intelligence' II	Special Topics in 'Applied Artificial Intelligence' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf596	Spezielle Themen aus dem Gebiet 'Computational Intelligence' I	Special Topics in 'Computational Intelligence' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf597	Spezielle Themen aus dem Gebiet 'Computational Intelligence' II	Special Topics in 'Computational Intelligence' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf598	Aktuelle Themen aus dem Gebiet 'Computational Intelligence' I	Current Topics in 'Computational Intelligence' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf599	Aktuelle Themen aus dem Gebiet 'Computational Intelligence' II	Current Topics in 'Computational Intelligence' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf604	Business Intelligence I	Business Intelligence I	1 V 1 Ü	6	Klausur oder mündliche Prüfung oder Hausarbeit oder Referat oder Portfolio oder fachpraktische Übungen und Klausur oder fachpraktische Übungen und mündliche Prüfung

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inf607	Business Intelligence II	Business Intelligence II	1 V 1 Ü	6	Klausur oder mündliche Prüfung oder Hausarbeit oder Referat oder Portfolio oder fachpraktische Übungen und Klausur oder fachpraktische Übungen und mündliche Prüfung
inf650	Transportsysteme	Transport Systems	1 V 1 Ü	6	Fachpraktische Übungen und Referat
inf651	Betriebliche Umweltinformationssysteme I	Environmental Management Information Systems I	1 V 1 Ü	6	2 Prüfungsleistungen (Fachpraktische Übungen und Klausur oder Fachpraktische Übungen und mündliche Prüfung)
inf652	Produktionsorientierte Wirtschaftsinformatik	Production-oriented Business Informatics	1 V 1 Ü	6	Fachpraktische Übungen und Referat
inf653	ERP-Technologie	ERP Technologies	1 V 1 Ü	6	Portfolio oder Fachpraktische Übungen und Klausur
inf654	Mobile Commerce	Mobile Commerce	1 V 1 Ü	6	Portfolio
inf655	IT-Controlling	IT-Controlling	1 V 1 Ü	6	1 Prüfungsleistung (Projekt oder Portfolio) oder 2 Prüfungsleistungen (Fachpraktische Übungen und Klausur)
inf657	Product Engineering	Product Engineering	1 V 1 Ü	6	Klausur oder mündliche Prüfung oder Hausarbeit oder Referat oder Portfolio
inf659	Betriebliche Umweltinformationssysteme II	Environmental Management Information Systems II	1 V 1 U	6	Klausur oder mündliche Prüfung oder Hausarbeit oder Referat oder Portfolio
inf660	Nachhaltigkeitsinformatik	Sustainability Informatics	1 V 1 Ü oder 1 V 1 P	6	Portfolio oder Projekt
inf661	Digitale Transformation	Digital Transformation	1 V 1 Ü	6	Referat, Projekt oder Klausur
inf6602	Sustainable Information Systems	Sustainable Information Systems	1V 1Ü	6	Klausur oder mündl. Prüfung
inf663	Application Area Maritime	Application Area Maritime	1 V 1 S	6	Mündliche Prüfung und Hausarbeit
inf690	Spezielle Themen aus dem Gebiet 'Wirtschaftsinformatik' I	Special Topics in 'Business Informatics' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf691	Spezielle Themen aus dem Gebiet 'Wirtschaftsinformatik' II	Special Topics in 'Business Informatics' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung

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inf692	Spezielle Themen aus dem Gebiet 'Wirtschaftsinformatik' III	Special Topics in 'Business Informatics' III	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf693	Spezielle Themen aus dem Gebiet 'Wirtschaftsinformatik' IV	Special Topics in 'Business Informatics' IV	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf694	Aktuelle Themen aus dem Gebiet 'Wirtschaftsinformatik' I	Current Topics in 'Business Informatics' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf695	Aktuelle Themen aus dem Gebiet 'Wirtschaftsinformatik' II	Current Topics in 'Business Informatics' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf696	Aktuelle Themen aus dem Gebiet 'Wirtschaftsinformatik' III	Current Topics in 'Business Informatics' III	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf697	Aktuelle Themen aus dem Gebiet 'Wirtschaftsinformatik' IV	Current Topics in 'Business Informatics' IV	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf701	Didaktik der Informatik II (allgemeinbildendes Lehramt)	Computer Science Education II	2 S	6	Portfolio
inf704	Didaktik der Informatik III	Computer Science Education III	1 S	3	Referat oder fachpraktische Übungen oder mündl. Prüfung
inf705	Praktikum Informatik in der Bildung	Computer Science in Education Lab	1 P	6	Portfolio
inf710	Spezielle Themen aus dem Gebiet 'Didaktik der Informatik' I	Special Topics in 'Computer Science Education' I	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf711	Spezielle Themen aus dem Gebiet 'Didaktik der Informatik' II	Special Topics in 'Computer Science Education' II	2 Veranst. aus V, S, Ü, P	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf712	Aktuelle Themen aus dem Gebiet 'Didaktik der Informatik' I	Current Topics in 'Computer Science Education' I	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf713	Aktuelle Themen aus dem Gebiet 'Didaktik der Informatik' II	Current Topics in 'Computer Science Education' II	1 V oder 1 S	3	Klausur oder Portfolio oder Referat oder mündliche Prüfung
inf810	Spezielle Themen der Informatik I	Special Topics in Computer Science I	2 Veranstaltungen aus V, Ü, S, P, PR	6	Portfolio oder Referat oder mündliche Prüfung oder Klausur
inf811	Spezielle Themen der Informatik II	Special Topics in Computer Science II	2 Veranstaltungen aus V, Ü, S, P, PR	6	Portfolio oder Referat oder mündliche Prüfung oder Klausur

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inf812	Aktuelle Themen der Informatik I	Current Topics in Computer Science I	1 Veranstaltungen aus V, S, P, PR	3	Portfolio oder Referat oder mündliche Prüfung oder Klausur
inf813	Aktuelle Themen der Informatik II	Current Topics in Computer Science II	1 Veranstaltungen aus V, S, P, PR	3	Portfolio oder Referat oder mündliche Prüfung oder Klausur
inf862	Auslandsstudium I	Study abroad I	Vorgabe der ausländischen Hochschule	6	Vorgabe der ausländischen Hochschule
inf863	Auslandsstudium II	Study abroad II	Vorgabe der ausländischen Hochschule	6	Vorgabe der ausländischen Hochschule
inf903	Forschungsprojekt I	Research Project I	1 P	12	Projekt
inf904	Forschungsprojekt II	Research Project II	1 P	12	Projekt
inf950	Interdisziplinäres Modul I	Interdisciplinary Module I	2 Veranst. aus V, S, Ü, P	6	Portfolio oder Referat oder mündliche Prüfung oder Klausur
inf951	Interdisziplinäres Modul II	Interdisciplinary Module II	2 Veranst. aus V, S, Ü, P	6	Portfolio oder Referat oder mündliche Prüfung oder Klausur
inf960	Fundamental Competences in Computing Science I: Signals and Dynamical Systems	Fundamental Competences in Computing Science I: Signals and Dynamical Systems	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung oder Fachpraktische Übungen und Klausur
inf961	Fundamental Competences in Computing Science II: Mathematics	Fundamental Competences in Computing Science II: Mathematics	1 V 1 Ü	6	mündliche Prüfung oder Klausur
inf962	Fundamental Competences in Computing Science III: Algorithms and computational Problem Solving	Fundamental Competences in Computing Science III: Algorithms and computational Problem Solving	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung oder Fachpraktische Übungen und Klausur
inf963	Foundations of Socio-Technical Systems Engineering: Cognitive Processes	Foundations of Socio-Technical Systems Engineering: Cognitive Processes	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf964	Foundations of Socio-Technical Systems Engineering: Psychology and Philosophy of Technology	Foundations of Socio-Technical Systems Engineering: Psychology and Philosophy of Technology	1 V 1 S	6	Portfolio oder Referat oder Klausur

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inf965	Foundations of Socio-Technical Systems Engineering: Systems Engineering	Foundations of Socio-Technical Systems Engineering: Systems Engineering	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung oder Portfolio oder Referat
inf966	Foundations of Socio-Technical Systems Engineering: Statistics and Programming	Foundations of Socio-Technical Systems Engineering: Statistics and Programming	1 V 1 Ü	6	Klausur oder mündliche Prüfung
inf970	Fundamental Competences in Psychology I: Psychology	Fundamental Competences in Psychology I: Psychology	1 V 1 Ü	6	Klausur
inf972	Fundamental Competences in Psychology III: Experiments and Studies	Fundamental Competences in Psychology III: Experiments and Studies	1 V 1 Ü	6	Fachpraktische Übungen und mündliche Prüfung
inf973	Psychological practicum fNIRS, EEG	Psychological practicum fNIRS, EEG	1 P	6	Referat
inf974	Human Computer Interaction and Brain Computer Interfacing	Human Computer Interaction and Brain Computer Interfacing	1 V 1 TPS	6	Portfolio
inf977	Fundamental Competences in Psychology II: Experimental Psychology (& Cognitive Processes)	Fundamental Competences in Psychology II: Experimental Psychology (& Cognitive Processes)	1 V 1 Ü	6	Klausur oder Portfolio oder Referat oder mündliche Prüfung
mat996	Einführung in die Numerik	Introduction to Numerics	1V 1Ü	6	Fachpraktische Übungen und Klausur oder Fachpraktische Übungen und mündliche Prüfung
mat997	Einführung in die Stochastik	Introduction to Stochastics	1 V 1 Ü	6	Fachpraktische Übungen und Klausur oder Fachpraktische Übungen und mündliche Prüfung

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