



## Official Announcement

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### **Study and Examination Regulations of the Otto von Guericke University Magdeburg for the Bachelor Bilingual Computer Science**

Based on §§ 13 paragraph 1 sentence 1, 67a paragraph 2, no. 3a as well as 77 paragraph 2 sentence 5 no. 1 of the Higher Education Act of the State of Saxony-Anhalt in the version published on July 1, 2021 (GVBl. LSA p. 368, 369), the Otto von Guericke University Magdeburg has issued the following study and examination regulations as statutes:

**– English courtesy translation.**

**The German version is legally binding. –**

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## I. General Part

### § 1

#### Scope

- (1) These study and examination regulations govern the objectives, content, structure, examinations and degree of the Bachelor's degree program in Bilingual Computer Science at the Faculty of Computer Science at the Otto von Guericke University Magdeburg.
- (2) The Bachelor's degree program is a full-time course of study.
- (3) There is the possibility of individual part-time study in accordance with the framework regulations for individual part-time study at the Otto von Guericke University Magdeburg.
- (4) Students complete the Bachelor's degree program in Bilingual Computer Science at the Faculty of Computer Science in one of the two course variants, German or English. More detailed explanations of the course variants can be found in Appendix **Fehler! Verweisquelle konnte nicht gefunden werden.** The course variant is determined upon admission and is decided on the basis of language proficiency. Students with German language skills up to B1 can only be admitted to the English course variant, students with German language skills of B2 and better are admitted to the German course variant.

### § 2

#### Objectives of the Study Program

- (1) The objectives of the degree program are to acquire comprehensive expertise and the ability to work independently according to scientific methods, to familiarize oneself independently with the diverse tasks of the fields of activity related to application, research and development in computer science and to cope with the frequently changing tasks that arise in professional life. Particular emphasis is placed on students being able to acquire and use these skills in both languages. Among others, graduates acquire the following skills:
  - ability to abstract and independently recognize problems and solutions,
  - integral view of information technology and operational contexts based on methodical, fundamental analyses,
  - ability to engage in lifelong learning,
  - interdisciplinarity,
  - be able to successfully transfer what they have learned in one situation to another (and actively use this experience),
  - to use their communicative and cooperative skills as appropriate to the situation,
  - the ability and willingness to act independently and responsibly, to reflect on one's own actions and the actions of others and to further develop one's own ability to act and thus to shape one's own life independently and responsibly in the respective social, cultural and professional context,

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- the ability to stand up for one's own goals and pursue them without disregarding the interests of others,
- written and oral language skills at a professional level in German and English,
- skills in working together in an international context.

The Bilingual Computer Science course includes core computer science and language training as a compulsory program. Based on these fundamentals, various specializations are possible, for example by choosing one of the profiles offered or through an individually compiled curriculum agreed with the head of the study program.

Graduates will acquire a sound, scientific basic knowledge in computer science. Aspects of multimedia, bioinformatics, security and human-machine interfaces are also covered in the context of current computer science topics.

The Bachelor's degree program lays the foundation for later broadening, deepening and specializing in computer science. It prepares students for a Master's degree in Computer Science.

The degree program has the following objectives:

- Graduates of the Bachelor's degree program master the mathematical and computer science methods to analyze problems and to model and implement solutions.
- Graduates have extensive knowledge and experience in databases, programming, mathematics, computer architecture / computer networks, software engineering and system programming. Building on their basic computer science training, they have acquired programming knowledge during their studies. This enables them to design, implement and test computer-aided solutions. Depending on their specific choice of courses, they are particularly specialized in at least one profile (given or self-developed). In addition, depending on the specific choice of their courses, they have in-depth knowledge in at least one area of informatics, e.g. computer intelligence, data mining, IT security, data management, human-machine interaction.
- They are able to apply their broad and integrated knowledge and understanding to their work or profession and to develop and understand solutions to problems and arguments in the field of computer science. They have the methodological competence to successfully work on programming problems, especially in the context of complex systems, considering technical, economic and social constraints.
- They have learned to formulate problems and to take on the resulting tasks in teams organized according to division of labor, to work independently, to take up the results of others and to communicate their own results.
- They have acquired the competence to collect, evaluate and interpret relevant information, especially in the field of computer science. They are able to derive scientifically sound judgments that take into account scientific, social and ethical

findings. Furthermore, they can independently organize further learning processes. They have become familiar with selected fields of application and are able to make qualified contributions to the implementation of computer science principles in application problems.

- They have a critical understanding of the most important theories, principles and methods in computer science and are able to deepen their knowledge. The knowledge and understanding corresponds to the state of the art in specialist literature and at the same time includes in-depth knowledge of the current state of research in the field of computer science.
- They have also acquired non-technical qualifications, in particular with regard to presentations, project management and creativity techniques, and are thus qualified for non-technical requirements in the professional environment.
- Graduates have acquired the competence to formulate and defend subject-related positions and problem solutions, to exchange information, ideas, problems and solutions with representatives of the subject of computer science and with laypersons. They have the ability to communicate efficiently with users, analyze problems from the user's point of view and design user-friendly system solutions. In addition, graduates are able to work on projects and in teams thanks to the specialist and key skills acquired during their internship.
- The Bachelor's degree program enables students to apply the skills and knowledge they have acquired and to quickly acquire new, in-depth knowledge.
- The bilingual degree program aims to provide students with language skills in German and English so that they can work confidently as computer scientists in both languages. In particular, they will be able to communicate confidently and idiomatically in both languages, both written and spoken.
- Thanks to the international character of the course, which goes beyond the language training, graduates receive a sound education that enables them to connect with the international job market. This applies to both course variants and prepares international applicants in particular for entry into the German labor market.

- (2) The study program is designed in such a way that students acquire the most important basics in the Bachelor's program. In addition to the desired professional qualification, they also create the prerequisites for continuing their academic education in professionally qualifying or scientific Master's programs in German or English in Germany and abroad. Thus, they have ideal prerequisites for an international career.

As part of the Bachelor's thesis, students document their problem-solving skills by applying scientific methods to a task.

- (3) In view of the internationalization of the university and working world and the acquisition of language and social skills associated with a stay abroad, the Faculty of Computer Science recommends and promotes a voluntary study visit to a foreign university. A stay

abroad can ideally be integrated in the 5th semester, especially in the German course variant.

### § 3 Academic Degree

After successful completion of the examinations required for the degree, the Otto von Guericke University awards the academic degree

**“Bachelor of Science”, abbreviated “B.Sc.”**

## II. Scope and Course of Study

### § 4 Admission to the Studies / Admission Requirements

- (1) The admission requirements for a degree course leading to a professional qualification are regulated in the Higher Education Act of the State of Saxony–Anhalt (HSG LSA). Anyone who fulfills the requirements according to § 27 HSG LSA will be admitted to the Bachelor's degree program.
- (2) Applicants who do not have a German higher education entrance qualification must provide evidence of the equivalence of their higher education entrance qualification in accordance with the OVGU enrolment regulations.
- (3) For the Bilingual Computer Science degree program, sufficient knowledge of English and German according to the level of the Common European Framework of Reference for Languages must be demonstrated:
  - For the German course variant, proof of level B2 in German and level B2 in English must be provided.
  - For the English course variant, proof of level B2 in English must be provided. Knowledge of German at level A1 is strongly recommended and must be acquired independently before starting the course.
  - A successful Abitur examination in English, or a grade of at least 4.0 or at least 5 years of English lessons with an average of at least 4.0 are sufficient to prove B2.
- (4) Proof of language competence can be provided by means of an internationally recognized language certificate, a level specified in the degree certificate or an equivalent. In exceptional cases, the examination board may determine special regulations.
- (5) The aptitude is determined based on the fulfillment of the requirements specified in §4 (1–4) and additionally based on the aptitude test procedure. It is assumed that the criteria of the aptitude assessment procedure are fulfilled.

The aptitude assessment is carried out in accordance with the "Statutes for the implementation of the internal university selection procedure for the Bachelor's degree

program in Bilingual Computer Science".

## § 5

### Start and Duration of Studies

- (1) Enrolment in the first semester of the Bachelor of Bilingual Computer Science is only possible in the winter semester.
- (2) The standard period of study, including the Bachelor's thesis, is 7 semesters.

## § 6

### Structure and Scope of the Studies

- (1) The study effort is described with credit points (CP) according to the European Credit Transfer System (ECTS).
- (2) The study effort is made up of, among other things, participation in the courses, the preparation and follow-up of the courses, the independent development and consolidation of the material as well as the proof of performance. One CP corresponds to approximately 30 hours of work. The workload per semester is approx. 30 CP.
- (3) The degree program has a modular structure. The modules are assigned to different fields of study in the standard curricula. In each field of study, modules amounting to the number of CPs specified in the respective standard curriculum must be completed by examinations. Module examinations consist of one or more examinations.

Modules are completed either with a graded examination or with an ungraded pass. Passed examinations that have not been graded can be converted into graded examinations through a subsequent examination.

The conditions for acquiring CP must be announced by the lecturers no later than the third week after the start of the course.

Examinations must be taken during or at the end of the respective module. A certain number of credit points are awarded for each successfully completed module. A module may consist of different types of courses (§ 8).

- (4) To successfully complete the degree program, at least 210 CP must be proven through the successful completion of compulsory and compulsory elective modules. For the Bilingual Computer Science degree program, at least 20 CP in subject-specific modules (no language courses) must be proven in each of the two languages. It is possible to complete additional modules of your choice.
- (5) A description of the structure of the degree program can be found in the standard study plans contained in the appendix. The list of modules, the associated examinations and the allocation of credit points to the individual modules can be found in the current module handbook. The compulsory modules (designated by module name) can also be found in the standard curricula contained in the appendix.
- (6) The degree program is designed in such a way that it can be successfully completed within the standard period of study.

- (7) Students must have acquired at least 15 CP by the end of the second semester. After this deadline, the Examination Board, in consultation with the student, determines those modules from the standard curriculum of the first two semesters in which the students concerned must have acquired at least 15 CP by the end of the third semester. As a rule, these are the modules "Introduction to Computer Science" and "Mathematics 1".

If the student concerned does not take the examination in the specified modules and within the specified period, these are deemed to have been failed for the first time. This does not apply if the student can prove that he or she is not responsible for missing the deadline. The examination board decides on exceptions.

For the Bilingual Computer Science degree program, the language modules of the first semester must be successfully completed after three semesters. After this period, a counseling interview is held with the student to determine an individual study plan to achieve language proficiency.

- (8) The degree program includes either a professional internship or a Bachelor's project, each of which must be worth 18 CP.

The professional internship or Bachelor's project and the Bachelor's thesis can be integrated or decoupled from each other. In the integrated variant, the duration of the professional internship or Bachelor's project is at least 20 weeks. In the decoupled variant, the duration of the professional internship or Bachelor's project is at least 12 weeks.

The professional internship or Bachelor's project can be completed in a maximum of 3 stages.

The exact regulations for the professional internship are set out in the internship regulations. The regulations for the Bachelor's project can be found in the relevant module description.

- (9) In addition to passing the examinations listed in the standard curricula, the successful completion of the degree program requires the completion and passing of a Bachelor's thesis including a colloquium. 10 CP are awarded for the Bachelor's thesis and 2 CP for the colloquium.
- (10) The Bachelor's thesis is an independent scientific work that must be submitted in written form and defended orally. The student should demonstrate that he or she can independently work on a task from the subject area using scientific methods within a specified period of time.
- (11) Study profiles can be selected in the Bachelor's degree program. The choice is made to the Examination Office at the latest upon graduation. The allocation of elective areas through compulsory modules or compulsory elective modules in the study profile can be found in the profile study plans in the module catalog of the module handbook. The list of profiles published in the module handbook at the beginning of the second year of study applies to students. A successfully completed profile is noted on the Bachelor's



certificate.

Compulsory modules and compulsory elective modules in the study profile are generally assigned to the compulsory elective area of Computer Science. The assignment can be found in the corresponding profile study plan in the module handbook. They are evaluated accordingly if the profile is deselected or not completed by the student.

Modules that cannot be credited as compulsory electives in Computer Science are explicitly marked in the profile curricula listed in the module handbook and can be noted in the certificate as an achievement in the additional area according to § 7 paragraph 4 if the profile is deselected before graduation upon application to the Examination Office.

## **§ 7** **Course Structure**

- (1) The modules required for successful completion of the degree program, including the examinations and certificates of achievement as well as their allocation to the compulsory or compulsory elective areas, are specified in the respective standard curriculum, which can be found in the appendix.
- (2) Compulsory modules are all modules that are required for the successful completion of the degree program in accordance with the respective course variant in accordance with these study and examination regulations.
- (3) Compulsory elective modules are all modules that students must select from the compulsory elective area in accordance with the study and examination regulations. Compulsory elective modules allow students to pursue their individual inclinations and interests or to take into account the subject-specific requirements of their future field of activity. The list of compulsory elective modules can be changed according to the development of the subjects and the availability of teaching staff and adapted to the courses offered by the department. Upon application by the student to the Examination Board of the Faculty of Computer Science at the Otto von Guericke University Magdeburg, other modules from all faculties of the Otto von Guericke University Magdeburg may also be recognized as compulsory electives in agreement with the head of the degree program.
- (4) Free elective modules are all modules that students choose to take in addition to the compulsory and compulsory elective modules from the Otto von Guericke University Magdeburg. Students can take an examination in the elective modules. The result of this examination is not taken into account when determining the overall grade. On request, it will be included in the certificate (additional field).
- (5) The times listed in the appendix for taking modules and examinations (standard curricula) are to be understood as a recommendation for completing the degree program within the standard period of study, subject to the regulation in § 6 paragraph 6. Further

information about the degree program can be obtained from the Examination Office of the Faculty of Computer Science, the heads of degree programs and the Enrollment Office of the Otto von Guericke University Magdeburg.

## § 8 Type of Courses

- (1) Lectures, seminars, tutorials, colloquia, software internships, projects and excursions, also in combination, are held as courses.
- (2) Lectures serve the coherent presentation and teaching of scientific, functional–technical and design–related basic and specialized knowledge as well as methodological knowledge.
- (3) Seminars serve the scientific processing of theoretical and practical issues in cooperation between students and teachers. This can take place in various forms of work (information presentations, papers, theses, discussions) and in groups.
- (4) Exercises serve to deepen the knowledge imparted in the lectures and to acquire methodical skills in connection with application–oriented practice.
- (5) The colloquium focuses on the presentation and defense of knowledge acquired in project work. The character of a colloquium consists of the theoretical and practical reflection of a topic at a high professional level.
- (6) Software internships serve to consolidate the course content through practical application.
- (7) In a course designated as a project, a complex task is worked on using a practical example, taking particular account of theoretical principles. The results are presented in a final project paper with an associated colloquium, which is also common for later professional activities. It can be supervised by an interdisciplinary teaching team, whose members can act both as coaches and mentors. Students can come from different degree programs and semesters. In addition to the provisions of the module, access to projects can be linked to certain prior achievements of the students. Students have the opportunity to work on a project independently within a semester in consultation with one of the course lecturers.
- (8) Excursions serve the purpose of visualization and information gathering as well as contact with local practice.
- (9) For individual courses (seminars, exercises, internships, projects, colloquia), the respective lecturers may stipulate compulsory attendance in accordance with HSG §9 para. 10 sentence 2 if the acquisition of content–related, methodological, reflective and, in particular, social, cooperative and communicative skills is closely linked to the discursive or practical forms of teaching and learning (promotion of methodological skills, social skills, communication, cooperation). The corresponding attendance requirements must be announced to students at the beginning of the relevant course in a binding and verifiable manner. Attendance is deemed to be fulfilled if attendance at at least 70 percent of the course times or dates (10 of 14 course dates) has been proven. Attendance is not compulsory for lectures. If less than 10 dates are proven, the student will not be admitted

to the corresponding module to complete the required module achievements or partial module achievements. The responsible lecturer (or module coordinator) decides whether the entire course or only the missed parts must be repeated in the event of absences.

## § 9

### Student Advisory Service

- (1) In order to make it easier for first-year students to find their way around the Otto von Guericke University Magdeburg, introductory courses are offered at the beginning of the degree program.
- (2) These study and examination regulations contain general information. Further information is required for precise orientation and planning of studies. For this purpose, students are advised to familiarize themselves with the module handbook. The Faculty of Computer Science offers a student advisory service for this degree program.
- (3) This consultation is organized by the heads of the degree program. They are listed on the homepage of the Faculty of Computer Science.
- (4) Student advisory service can be used at any time and is particularly useful in the following cases:
  - initial difficulties at the start of studies,
  - choice of major fields of study or choice of compulsory electives,
  - significantly exceeding the standard period of study,
  - significantly falling short of the credit points required per semester,
  - failed examinations,
  - change of degree program or university,
  - studying abroad and individual study plans.

## §10

### Individual Study Plans

- (1) Individual study plans serve the successful completion of studies within the standard period of study. They are offered in particular to students who require special support due to long-term illness, birth or care of family members or similar.
- (2) Individual study plans are only possible with the approval of the Examination Board.
- (3) The head of the degree program is the contact person for students when drawing up an individual study plan.

## III. Examinations

### § 11

#### Examination Board

- (1) An Examination Board is formed to perform the tasks assigned by these study and examination regulations. It consists of seven members appointed by the Faculty Council.

The chairing member, the vice-chairing member and two further members are appointed from the group of professors and junior professors in accordance with § 60 sentence 1 no. 1 HSG LSA (professors). Two members are appointed from the group of academic staff in accordance with § 60 sentence 1 no. 4 HSG LSA, and one member and one representative from the group of students in accordance with § 60 sentence 1 no. 3 HSG LSA. In addition, two representatives must be appointed for each of the other aforementioned status groups.

- (2) The Examination Board shall draw up its own rules of procedure.
- (3) The Examination Board ensures that the examinations are carried out. It ensures that the provisions of these study and examination regulations are adhered to. It makes suggestions for the reform of these study and examination regulations. Particular importance is attached to compliance with the standard period of study and examination deadlines.
- (4) The Examination Board passes its resolutions by a majority of the votes cast. In the event of a tie, the chairperson shall have the casting vote; in their absence, the vice-chairperson shall have the casting vote. The Examination Board is quorate if the majority of its members, including at least two members from the group of professors, are present.
- (5) The term of office of the members of the Examination Board is two years; the term of office of the student member is one year. Reappointment is possible.
- (6) In individual cases, the Examination Board may revocably delegate certain powers under these study and examination regulations to the chairperson and the vice-chairperson. This does not apply to decisions on appeals and the report to the Faculty of Computer Science. The chairperson prepares the resolutions of the Examination Board, implements them and reports to the Examination Board on his/her activities on an ongoing basis.
- (7) The members of the Examination Board have the right to participate in the examinations as observers.
- (8) The members of the Examination Board and their representatives are subject to official secrecy. If they are not employed in the public sector, they must be sworn to secrecy by the chairperson.
- (9) The Faculty of Computer Science has an Examination Office to support the work of the Examination Board.

## **§ 12**

### **Examinors and Assessors**

- (1) The Examination Board appoints the examiners and the assessors. Professors and junior professors are entitled and obliged to conduct university examinations. This also applies to private lecturers, adjunct professors, insofar as they are employed full-time at the participating universities and perform the duties of a professorship in teaching and research, research assistants or teaching staff for special tasks, insofar as they perform teaching duties, lecturers or persons experienced in professional practice and training.

Honorary professors may also be appointed as examiners. Examinations may only be assessed by persons who themselves hold at least a Bachelor's degree or an equivalent qualification.

- (2) Two examiners must be appointed for the assessment of written examinations of the faculty. A different number of examiners may only be appointed by the Examination Board in justified exceptional cases. The decision must be communicated to the students in an appropriate manner by means of a notice or on the website of the Examination Office.
- (3) Two examiners must be appointed to assess the Bachelor's thesis, one of whom must be a university lecturer.
- (4) Students may propose examiners for oral examinations and the Bachelor's thesis. The suggestion does not constitute a legal claim.
- (5) The examiners are independent in their examination activities.
- (6) The Examination Board shall ensure that students are informed of the names of the examiners and the registration periods for module examinations through the publication of the examination schedule by the Examination Office of the Faculty of Computer Science at the Otto von Guericke University Magdeburg.
- (7) Section 11 (9) applies accordingly to the examiners and assessors.
- (8) For the examination of language modules, the responsible persons of the Language Center or the external provider with appropriate certification are recognized as examiners.

### **§ 13**

#### **Recognition of Periods of Study, Study Achievements and Examinations**

- (1) The Examination Board shall decide on the crediting of periods of study, study and examination achievements from another degree program or a degree program at another university upon written application. The application for recognition of periods of study, study achievements and examinations completed before commencement of the respective degree course must be submitted to the Examination Board of the relevant degree course by the end of the first semester after commencement of the degree course. Upon expiry of the application deadline, recognition of these achievements is excluded. Students must submit the documents required for recognition in the original or in certified form.
- (2) Periods of study, study achievements and examinations completed in degree programs at universities within the scope of the Basic Law and those completed abroad shall be credited unless there is a significant difference. The Lisbon Convention of 11 November 1997, the equivalence agreements approved by the Standing Conference of the Ministers of Education and Cultural Affairs of the States and the German Rectors' Conference as well as regulations within the framework of university cooperation agreements shall be observed when crediting periods of study, study achievements and examinations

completed outside the Federal Republic of Germany. The burden of proof that an application does not meet the relevant requirements lies with the Examination Board.

The basis for assessment is the European Credit Transfer System (ECTS), if already applied by both parties.

- (3) In the case of comparable grading systems, the grades are adopted and included in the calculation of the overall grade. In the case of non-comparable grading systems, the performance can be accepted as a certificate or as a grade of "sufficient" upon request.
- (4) A maximum of 50% of the knowledge and skills acquired outside of a university can be recognized for the university degree course, provided that they are relevant and equivalent to the modules of the degree course in terms of content and level. The application for recognition must be submitted to the Examination Board by the end of the first semester after commencement of studies. Students must submit the documents required for recognition in the original or in certified form. The recognition of Master's theses and internship modules is not possible. The recognition of knowledge and skills acquired outside a university is excluded after the application deadline.

## § 14

### Types of Course-related Examinations

- (1) The type of examination for a course can be found in the corresponding module description in the module handbook of the degree program on the faculty's homepage one week before the start of the semester.
- (2) The following types of course-related examinations are possible:
  - written examination or electronic examination (written exam) (para. 3),
  - oral examination (para. 4),
  - scientific project (para. 5),
  - term paper (para. 6),
  - presentation (para. 7)
- (3) In a **written examination**, students should demonstrate that they can recognize a problem and find ways to solve it in a limited time with limited aids and under supervision using the usual methods of the subject area. The processing time for a written examination is a minimum of 120 and a maximum of 240 minutes.
- (4) In **oral examinations**, the student should demonstrate that he or she recognizes the interrelationships of the examination area and can place specific questions in these contexts. Within the framework of the oral examination, tasks of an appropriate scope may also be set for written treatment if this does not negate the oral nature of the examination.

The oral examination takes place in front of several examiners (peer examination) or in front of one examiner and one expert assessor as an individual or group examination, whereby up to 3 students can form a group. The assessor must be heard before the

grade is determined. The duration of the examination is usually approx. 30 minutes for each student. The main subjects of the examination and the assessment of the examination performance must be recorded in a protocol. It must be signed by the examiners and the assessors. The result of the examination is to be announced to the student following the oral examination.

- (5) By participating in a **scientific project**, students should demonstrate that they are capable of independent academic work and teamwork. The independent part of the project work must be demonstrated.
- (6) A **term paper** requires experimental, empirical or theoretical work on a task from the subject area. The task must be set in such a way that it can be completed within the lecture period of the current semester. Students can make suggestions for the topic and the assignment. These do not constitute a legal claim. In suitable cases, the solutions developed may be explained orally in a manner typical of the professional activity. The processing time may be extended once by up to half upon request if the student has an above-average workload with other examinations. In this case, the standard period of study must be observed.
- (7) A **presentation** comprises an independent and in-depth written examination of a problem from the working context of the course with the inclusion and evaluation of relevant literature as well as the presentation of the work and the communication of its results in an oral presentation and in the subsequent discussion. The work must be submitted in writing.
- (8) Preliminary examinations may be required as a prerequisite for admission to a course-related examination for a module. Failed preliminary examination achievements can be repeated at will. The conditions for the acquisition of the examination prerequisites as well as their type and scope shall be announced by the lecturers at the beginning of the course (at the latest in the third week after the beginning). It is noted in the module descriptions whether preliminary examination work must be completed.
- (9) Examinations may also be admitted in the form of a joint project. The individual's contribution must meet the requirements of the examination and be clearly distinguishable and assessable as an individual achievement based on the specification of sections and page numbers or other objective criteria. The group is limited to six students.
- (10) The type and scope of the examinations for the individual modules can be found in the module handbook. The forms of examination provided for in the module descriptions may be changed under the following conditions:
  - (a) If 12 or fewer students are registered or expected for an examination scheduled as a written examination with one examiner, the Examination Board may, at the request of the examiner(s), authorize oral examinations to be held instead. This approval is valid for one examination date at a time. In the case of repeat examinations, it shall only be granted if the first examination was also held in oral form.
  - (b) If more than 20 students are registered or expected for an examination to be taken

orally by an examiner on an examination date, the Examination Board may, at the request of the examiner(s), approve the examination to be taken in the form of a written examination lasting at least 120 minutes instead. This approval is valid for one examination date at a time. In the case of repeat examinations, it is only granted if the first examination was also held in the form of a written examination.

When changing the type of examination, 30-minute oral examinations are to be replaced by written examinations of 120 minutes and longer oral examinations of up to 60 minutes are to be replaced by written examinations of a maximum of 240 minutes. Conversely, written examinations of 120 minutes shall be replaced by 30-minute examinations and written examinations of 240 minutes by oral examinations of a maximum of 60 minutes.

The students concerned must be informed of any changes to the examination format approved by the Examination Board (by posting the examination schedule or on the website of the Examination Office).

- (11) The examiner shall decide which aids may be used in a written examination. As a rule, the grades are to be announced after 6 weeks at the latest.
- (12) For module examinations of other faculties or institutions, the examination forms and regulations of the respective faculty apply.
- (13) Examinations are generally conducted in German or English, depending on the language of the module. Students must be informed in which language the examination is offered.
- (14) The examination types in accordance with § 14 para. 2 can be conducted in different ways. They may be taken in the form of physical attendance or (online-based) computer-based, at a specific location or not, with or without supervision. The examiner determines the form of implementation.

## § 15

### **Protective Provisions, Compensation for Disadvantages**

- (1) If students can provide a medical certificate proving that they are unable to take all or part of the examination in the prescribed form due to prolonged or permanent illness, the Examination Board must give them the opportunity to take equivalent examinations in another form.
- (2) Disabled students may be granted compensation for disadvantages in the form of additional work equipment and aids, insofar as this is necessary to ensure equal opportunities. For this purpose, processing periods may also be extended to a reasonable extent or the taking of the examination in a different form may be approved. A disabled person is a person who is unable to take the examination in whole or in part in the intended form due to a prolonged or permanent disability. The disability must be substantiated. The university may require that the credible evidence be provided in the form of a medical certificate or a disability certificate. Disability compensation must be applied for in writing to the examination board. The application should be submitted at the latest when registering for the examination.
- (3) The protective provisions in accordance with the Maternity Protection Act and the



deadlines of the Federal Parental Allowance and Parental Leave Act (BEEG) regarding parental leave must be taken into account appropriately when applying these examination regulations, in particular when calculating deadlines, and their use must be made possible.

- (4) Students who have been granted leave of absence due to family obligations may voluntarily take coursework and examinations during their leave of absence with the approval of the Examination Board. Upon written application to the Examination Board, it is possible to repeat a failed examination during the period of leave of absence.

## **§ 16**

### **Public Access to Oral Examinations**

Students of the degree program who have not yet successfully completed the respective examination may be admitted as listeners to oral examinations in their own degree program, provided they are not registered for this examination themselves. This does not extend to the consultation and announcement of the examination result to the students. At the request of a student being examined, the audience must be excluded.

## **§ 17**

### **Admission to Module Examinations during the Course of Study**

- (1) Anyone who is enrolled in the degree program listed in § 1 at the Otto von Guericke University Magdeburg may be admitted to the module examinations during the course of study.
- (2) Students of the degree program listed in § 1 shall register for the module examinations and repeat examinations within the period of time centrally determined by the University and in the form determined by the Examination Board. If the registration deadline is not met, registration for the examination is excluded, unless the Examination Board decides otherwise at the written request of the student. In the case of module examinations consisting of several examinations, registration shall take place before the first examination.
- (3) Examiner proposals and proof of prior examination achievements must be enclosed with the registration, unless the relevant documents are held by the Otto von Guericke University Magdeburg.
- (4) Registration may be withdrawn up to three calendar days before the respective examination date at the latest. Withdrawals can be made via the online portal for examination registrations or, if this is not possible, by contacting the examiner and the Examination Office.

In the event of withdrawal in accordance with paragraphs 1 and 2, the application must be submitted again at a later examination date. In the case of module examinations with several examinations, the withdrawal of the application applies to all examinations.

- (5) The Examination Board shall decide on the registration. It shall be refused if:
1. the admission requirements are not fulfilled or
  2. the documents are incomplete or
  3. the module examination has been definitively "failed" or is definitively deemed to have been "failed".

## § 18

### Assessment of Module Examinations and Calculation of Module Grades

- (1) The individual examination performance is assessed by the respective examiners. In the case of written examinations, the assessment should be announced no later than 6 weeks after the respective examination. The Examination Board may set deadlines for the assessment of written examinations.
- (2) The following grades are to be used to assess the performance:

Grade		
1	very good	An outstanding performance
2	good	a performance that is significantly above the average requirements
3	satisfactory	a performance that meets average requirements
4	sufficient	a performance that still meets the requirements despite its shortcomings
5	not sufficient	a performance that no longer meets the requirements due to significant deficiencies

For differentiated assessment of the module examinations, individual grades can be raised or lowered by 0.3 to intermediate values; the grades 0.7; 4.3; 4.7 and 5.3 are excluded.

- (3) An examination is passed if it has been assessed as at least "sufficient". If the examination is assessed by several examiners, it is passed if the arithmetic mean of the individual grades determined by the examiners, truncated to two decimal places after the decimal point, is at least "sufficient" (4.00). In this case, the grade of the examination performance is the arithmetic mean of the individual grades determined by the examiners, truncated to one decimal place after the decimal point, in deviation from the stipulation in paragraph 2.
- (4) The standard curriculum for the course variants of the degree program provides for module groups whose modules can be completed either as a graded examination or as an ungraded performance record.

Such module groups are identified by the indication "min. x CP graded". These must be

proven by the corresponding CP with graded achievements; the remaining CP can also be proven by ungraded achievements

- (5) A module examination is passed if all required examinations have been graded at least "sufficient".

If a module examination consists of only one examination, the module grade corresponds to the grade of the examination. If a module examination consists of several examinations, the module grade shall be the weighted arithmetic mean of the grades of the examinations in the module, truncated to one decimal place; notwithstanding the provision in paragraph 2.

Modules may be weighted when calculating the overall grade for the Bachelor's degree program. The weightings for the individual modules can be found in the attached standard curricula or they result from the ratio of the CP shares of the corresponding module as documented in the respective module description.

- (6) An examination using the multiple-choice method is passed if the candidate has achieved at least 50 percent of the possible points (absolute pass mark) or if the number of points achieved by the candidate is not more than 22 percent lower than the average examination performance of the students for the respective examination date (sliding scale).

The sliding scale clause only applies if the examination candidate has achieved at least 40 percent of the possible number of points. To determine the individual examination results, the difference between the relative and absolute pass mark for each examination candidate is added together. This paragraph applies if the proportion of examination questions in the answer-choice procedure exceeds 50 percent.

- (7) When calculating a grade based on the average, only the first decimal place after the decimal point is taken into account; all other places are deleted without rounding. The predicate is:

<b>In the case of an average grade</b>	<b>Predicate</b>
up to and including 1.5	very good
from 1.6 up to and including 2.5	Good
from 2.6 up to and including 3.5	Satisfactory
from 3.6 up to and including 4.0	Sufficient
from 4.1	not sufficient

- (8) The regulations of the relevant provider apply to the assessment of module examinations from other faculties or institutions.

## § 19

### Repetition of Module Examinations

- (1) Unsuccessful attempts to take an examination, i.e. examinations that have not been passed or are deemed to have been failed, must be retaken. The retake should take place at the earliest after six weeks and at the latest by the end of the second semester following the examination attempt, unless the student has been granted a grace period for special reasons for which he or she is not responsible. Registration for the examination is required again in order to take the examination. In the event of an interruption to studies and in other justified cases, binding decisions shall be made by the Examination Board regarding the taking of repeat examinations. Section 18 applies to the assessment.
- (2) For written examinations, the Examination Board sets the date for the re-examination and announces it in the university information system (currently HIS-LSF).
- (3) For all types of examination, students are obliged to ensure that they meet the deadline themselves. If the student is responsible for missing the deadline, the examination is deemed to have been failed once.
- (4) Graded examinations may be repeated a maximum of two times; this second repetition is permitted for a maximum of six examinations during the entire course of study.

A second re-examination is oral if the first re-examination was an oral examination or a written examination. Notwithstanding this regulation, §14 (para. 12) applies to module examinations of other faculties. If the first or re-examination was written, the length of the oral examination is based on the conversion formulas in Section 14 (10).

There is no attempt count for ungraded performance records.

Paragraph 1 applies accordingly to the deadlines.

The regulations of the offering faculty, the Language Center or the external provider apply to the repetition of module examinations of other institutions, insofar as these do not contradict or restrict the regulations of these study and examination regulations.

- (5) Unsuccessful attempts to take an examination in the chosen degree program at a higher education institution within the scope of the Basic Law shall be counted towards the retake options.
- (6) An examination that has been passed cannot be repeated.

Notwithstanding this, a passed written examination can be repeated once during the course of the Bachelor's degree program, provided the examination is still offered. The better of the grades achieved shall apply.

## § 20

### Bringing forward Master's Examinations

If students have earned at least 120 CP in their Bachelor's degree program, they can also take early examinations from the courses offered by the Faculty of Computer Science in the Master's degree programs up to a maximum of 18 CP.

## § 21

### **Withdrawal from a Module Examination**

A student may withdraw once during the Bachelor's degree program from a module examination that has been started but not yet finally completed, provided that the subject is not a compulsory subject according to the standard curriculum. The application for admission to the examination is then deemed not to have been submitted.

## **IV. Bachelor's Degree**

### § 22

#### **Registration for the Bachelor's Thesis**

- (1) Only students who are enrolled at the Otto von Guericke University Magdeburg in the degree program listed in § 1, who can provide evidence of at least 150 CP by successfully completing modules of the degree program, and who have successfully completed all courses specified in § 26 paragraph 2 from the first semesters of the standard curriculum shall be admitted to the Bachelor's thesis.
- (2) Students apply in writing to the Examination Board for admission to the Bachelor's thesis. The application for the Bachelor's thesis must be accompanied by a proposal for the subject area of the Bachelor's thesis, an application for the assignment of the topic as a joint thesis and, if applicable, examiner proposals.

### § 23

#### **Issuing the Topic, Submission, Assessment and Publication of the Bachelor's Thesis**

- (1) The topic of the Bachelor's thesis must be issued in good time so that the Bachelor's examination can be completed within the standard period of study. Upon request, the Examination Board shall ensure that students receive a topic in good time, provided that all requirements are met.
- (2) Students may make suggestions for the topic and assignment of the Bachelor's thesis. The student's suggestion should be rejected if possible. However, it does not constitute a legal claim. The topic is determined by the examiner after hearing the students to be examined. Task-specific criteria for the assessment will be disclosed before the start of the work. All partial performances are included in the grade. The issue of the topic must be recorded. This is done by submitting an application for the Bachelor's thesis to the Examination Board.
- (3) The Bachelor's thesis is issued and supervised by an authorized examiner appointed in accordance with Section 12 (1). This person must be a member of the Faculty of Computer Science. The topic must be confirmed by a university lecturer. In justified exceptional cases, at the student's request and with the approval of the Examination Board, the topic may be assigned by an authorized examiner who does not meet this

requirement. In this case, the second person authorized to conduct examinations should be a member of the relevant faculty.

- (4) The time from the issue of the topic to the submission of the Bachelor's thesis is 20 weeks. The thesis must be completed in parallel with the internship or Bachelor's project or in parallel with attendance at other courses.

For demonstrable reasons for which the student is not responsible, the processing time can be extended by a maximum of 2 months upon written application to the Examination Board. An aborted attempt for demonstrable reasons for which the student is not responsible shall not be counted towards the retake options.

A justified application for an extension of the submission deadline by a maximum of 2 months must be submitted to the Examination Board in good time by the student following a statement from the supervisor.

In the case of periods of illness evidenced by a medical certificate, the deadline is extended accordingly by the time of the medical certificate.

The first examiner who determined the topic is appointed when the topic is issued. The examiners must be authorized to conduct examinations in accordance with Section 12 (1). At least one examiner must belong to the group of university lecturers.

- (5) The topic can only be returned once and only within the first third of the processing time. This must be reported to the Examination Office of the Faculty of Computer Science. In the event of withdrawal, admission must be reapplied for at a later date.
- (6) The Bachelor's thesis may be completed in the form of a joint project. The individual contribution to be assessed as an examination achievement must be clearly distinguishable and assessable in its own right on the basis of the specification of sections and page numbers or other objective criteria and must meet the requirements of paragraph 1. The group is limited to up to 3 students.
- (7) When submitting the Bachelor's thesis, students must declare in writing that they have written the thesis (in the case of a joint thesis, the part of the thesis marked accordingly) independently and have not used any sources or aids other than those specified.
- (8) The Bachelor's thesis must be submitted on time in digital form (PDF format), which is also used for a plagiarism check at the Examination Office. The submission date must be recorded. If the Bachelor's thesis is not submitted on time, it will be graded as "insufficient". At the request of a reviewer, a written bound copy must be sent to the reviewer.
- (9) The Bachelor's thesis should be assessed by the examiners within four weeks of submission.

The Bachelor's thesis is deemed to have been failed if all grades are "insufficient (5.0)". If one examiner assesses the thesis as "insufficient (5.0)", a third examiner is appointed. If two assessments are then "insufficient (5.0)", the Bachelor's thesis is deemed to have been failed.

If only one of the three assessments is graded "insufficient (5.0)", the Bachelor's thesis

is deemed to have been passed. In this case, the grade is calculated from the arithmetic mean of the grades. Deviating from this, the thesis is assessed as 4.0 if the arithmetic mean is greater than 4.0.

The grade resulting from the arithmetic mean is included in the overall grade with a factor of 2/3, the grade for the Bachelor's colloquium with a factor of 1/3.

- (10) The Bachelor's thesis should be made accessible to the public. Publication of scientific results in the relevant specialist literature may not be unfairly excluded by a contract. In this case, the Bachelor's thesis will not be accepted for assessment by the Faculty of Computer Science, but blocking notices with blocking periods of a maximum of 2 years are permitted.

## **§ 24**

### **Bachelor's Colloquium**

- (1) In the colloquium, students must prove that they are able to defend the results of their academic work in a specialist discussion. The colloquium is the final examination in the degree program.
- (2) Conditions for admission to the colloquium are a grade of at least "sufficient" for the Bachelor's thesis, as well as the completion of all examinations and certificates of achievement of at least 180 CP.
- (3) The colloquium is conducted as an individual or group examination by the examiners of the Bachelor's thesis. The Examination Board may appoint further examiners. In the colloquium, the topic of the Bachelor's thesis and the associated problems and results should be presented in a maximum of 20 minutes (presentation) and relevant questions should then be answered. In the case of a group examination, the time is reduced to a maximum of 15 minutes per student. The total duration of the colloquium is usually 45 minutes for each student, but not more than 60 minutes.
- (4) The colloquium is passed if it has been assessed as at least "sufficient" by the examiners.
- (5) The defense of the Bachelor's thesis in the colloquium takes place in public at the university. As a rule, the colloquium should be held at the Otto von Guericke University Magdeburg or the institutions associated with the Otto von Guericke University Magdeburg. This may be deviated from upon reasoned application to the Examination Board. Reasons must be given as to why a defense at the Otto von Guericke University Magdeburg is not possible and how university publicity will be established in this case. The application must be submitted in such a way that a hearing in the Examination Board is possible before the defense date.

## **§ 25**

### **Repeating the Bachelor's Thesis and the Colloquium for the Bachelor's Thesis**

- (1) The Bachelor's thesis may be repeated once with a new topic if it has been assessed as

- "insufficient" or is deemed to have been assessed as "insufficient".
- (2) However, the topic may only be returned for a repeat Bachelor's thesis if this option has not already been exercised for the first thesis.
  - (3) The new topic of the Bachelor's thesis shall be issued within a reasonable period of time, usually within three months.
  - (4) The processing time for a Bachelor's thesis that has been failed for the first time and has to be repeated is 20 weeks.
  - (5) A second repetition of the Bachelor's thesis is not permitted.
  - (6) The repetition of a passed Bachelor's thesis is excluded.
  - (7) It is not necessary to repeat an internship that has been passed.
  - (8) The colloquium for the Bachelor's thesis may be repeated once if it has been assessed as "insufficient" or is deemed to have been assessed as "insufficient". The repetition must be carried out within eight weeks.
  - (9) A second repetition of the colloquium for the Bachelor's thesis is not permitted.
  - (10) The repetition of a passed colloquium for the Bachelor's thesis is excluded.
  - (11) The overall grade for the Bachelor's thesis with the colloquium is calculated from the arithmetic mean of the grade of the first examiner, the grade of the second examiner and the grade of the colloquium. Section 18 applies to the assessment.

## § 26

### Overall Result of the Bachelor's Degree

- (1) The Bachelor's examination is passed if all necessary course-related examinations of the compulsory and compulsory elective modules and the Bachelor's thesis with the colloquium have been assessed as at least "sufficient".
- (2) The overall grade of the Bachelor's examination is calculated from the weighted average of the grades for the module examinations and the module grade of the Bachelor's thesis with the colloquium. § Section 18 (6) applies accordingly.
- (3) The weightings result from the CP of the corresponding modules, which can be found in the attached standard curricula. Grades from courses that are to be taken in the first semesters according to the standard curriculum and are marked accordingly are included with 50% of their CP weighting.
- (3) The grade "passed with distinction" is awarded if the average of the overall grade is no worse than 1.2.
- (4) The Bachelor's degree is definitively failed if a course-related examination or the Bachelor's thesis with the colloquium was assessed as "insufficient" or is assessed as "insufficient" and there is no longer an opportunity to repeat it.



## § 27

### Certificates and Attestations

- (1) A certificate of successful completion of the Bachelor's examination must be issued immediately, if possible within four weeks. The certificate shall bear the date of the day on which the last examination was completed. It must be signed by the Chairperson of the Examination Board and bear the seal of the Otto von Guericke University Magdeburg.
- (2) If a student has achieved the Bachelor's degree, he or she will receive a certificate of the results. The certificate shall include the grades of the modules, the grade of the Bachelor's thesis and the overall grade and the ECTS grade. The certificate also contains the topic of the Bachelor's thesis.
- (3) Upon application to the Examination Office, students will receive a Diploma Supplement with their certificate.
- (4) If the Bachelor's degree has not been passed or is deemed not to have been passed, the Examination Board shall issue the student with a written decision on this, which shall also provide information on whether and to what extent examinations can be repeated. The notification of a definitively failed Bachelor's examination must be substantiated in writing, include a right of appeal and be made known to the student.
- (5) If students leave the University or change degree programs, they will be issued a certificate upon request, which contains the examinations taken and their assessment. It shall also indicate whether the Bachelor's examination has been failed or definitively failed. In the case of paragraph 4, the certificate will also be issued without an application.

## § 28

### Certificate

- (1) Students receive the certificate with the date of the transcript. It certifies the award of the Bachelor's degree.
- (2) The certificate is signed by the Dean and the Chair of the Examination Board of the Faculty of Computer Science at the Otto von Guericke University Magdeburg and sealed with the seal of the Otto von Guericke University Magdeburg.

## V. Final Provisions

### § 29

#### Inspection of Examination Files

Students are granted access to their study and examination files upon written request up to one year after completing their studies. The request must be submitted to the Examination Board of the Faculty of Computer Science. The Chairperson of the Examination Board shall determine the time and place of the inspection.

### § 30

#### **Failure, Withdrawal, Cheating, Breach of Regulations**

- (1) A module examination during the course of study is deemed to have been assessed as "insufficient" if the student fails to attend a binding examination date without a valid reason:
  - fails to appear on an examination date that is binding for him or her,
  - withdraws from the examination after the withdrawal period specified in §17 has expired or after the start of an examination,
  - fails to meet the submission deadline,
  - does not take the examination or retake it within the deadline set for it
- (2) The reasons given for the withdrawal or absence must be reported to the Examination Board immediately in writing and made credible. If this is not done, the examination shall be assessed as "insufficient". In the event of illness, a medical certificate must be submitted. If the reasons are recognized, the examination must be taken on the next examination date offered, unless the Examination Board decides otherwise.
- (3) If the student attempts to influence the result of an examination by cheating or using unauthorized aids, the examination in question shall be graded as "insufficient". Anyone who disrupts the orderly progress of the examination may be excluded from continuing with the examination by the examiner or supervisor. In this case, the examination shall be graded as "insufficient". In serious cases, the Examination Board may exclude the student from taking further examinations.

### § 31

#### **Invalidity of Examination Results**

- (1) If a student has cheated in an examination and this fact only becomes known after the certificate has been issued, the Examination Board may declare the examination failed in whole or in part.
- (2) If the requirements for admission to an examination were not fulfilled without the intention to cheat and the fact only becomes known after the certificate has been issued, this deficiency shall be remedied by passing the examination. If students have intentionally obtained admission unlawfully, the Examination Board shall decide on the withdrawal of unlawful administrative acts in accordance with the statutory provisions.
- (3) The students concerned must be given the opportunity to discuss the matter with the Examination Board before a decision is made.
- (4) An incorrect certificate shall be withdrawn and, if necessary, replaced by a new certificate or a certificate in accordance with § 27 para. 5. The Bachelor's certificate shall be confiscated if the Bachelor's examination has been declared "failed" due to the act of

cheating. A decision in accordance with paragraph 1 and paragraph 2 is excluded after a period of five years from the date of the certificate.

## **§ 32**

### **Decisions, Appeal Procedure**

- (1) All decisions that are made in accordance with these examination regulations and constitute an administrative act must be justified in writing, accompanied by information on legal remedies and published. An appeal procedure against the decision shall take place in accordance with the general standards of administrative law.
- (2) The Examination Board shall decide on the appeal in accordance with the general standards of administrative law.

## **§ 33**

### **Withdrawal/Revocation of the Academic Title**

The withdrawal or revocation of the Bachelor's degree is carried out in accordance with § 21 of the Higher Education Act of the State of Saxony-Anhalt.

## **§ 34**

### **Public Announcements of the Examination Board**

Decisions and other measures to be taken in accordance with these Study and Examination Regulations, in particular admission to the examination, the granting of admission, the registration and examination dates and deadlines as well as the examination results shall be announced to the public at the university in the usual manner. Data protection regulations must be observed.

## **§ 35**

### **Entry into Force**

These study and examination regulations come into force on the day after their publication in the official announcements of the Otto von Guericke University Magdeburg.

Issued on the basis of the resolution of the Faculty Council of the Faculty of Computer Science of 06.03.2024 and the opinion of the Senate of the Otto von Guericke University Magdeburg of 20.03.2024.

Magdeburg, xx.yy.2024

English courtesy translation.  
The German version is legally binding.

Prof. Dr.-Ing. habil. Jens Strackeljan

Rector

of the Otto von Guericke University Magdeburg

**Annexes:**

- 1.) Standard curricula for Bilingual Computer Science German and English
- 2.) Objectives of the Bachelor's degree program
- 3.) Regulations of the course variants

Semester	1	2	3	4	5 - Exchange	6	7
	Exams	8 CP - 50%	6 CP - 50%	5 CP			
Computer Science I - Mandatory	Introduction to Computer Science (10 CP)	Algorithms and Data Structures (10 CP)	Software Engineering and IT Project Management (5 CP)				
	at least 5 CP graded - 50%						
	Databases (5 CP)		Modelling (5 CP)				
Exams	at least 10 CP graded (15 CP taken)						
CS II - Mandatory			Intelligent Systems (5 CP)	Programming Paradigms (5 CP)		Secure Systems (5 CP)	
Exams	at least 15 CP graded						
CS - Electives					CS or Math Elective (5 CP)	CS Elective (5 CP)	
						CS Elective(5 CP)	
Exams	at least 5 CP graded - 50%						
Technical CS			Technical Computer Science 1 (5 CP)	Technical Computer Science 2 (5 CP)			
Exams	at least 10 CP graded (20 CP taken) - 50%						
Math / Logic	Math 1 (5 CP)	Math 5 (5 CP)	Math 3 (5 CP)				
		Logic (5 CP)					
Exams	at least 10 CP graded (15 CP taken)						
Math / Theoretical CS		Math 2 (5 CP)	Basics of Theoretical Computer Science 1 (5 CP)	Basics of Theoretical Computer Science 2 (5 CP)			
Exams	at least 20CP graded - 50%					5 CP	
Language	English Soft Skills, Scientific Language (10 CP) (CP distribution: 2+2+2+4)				International Module during Exchange (5 CP)	Scientific Seminar in in English (5 CP)	
	Language top-up (5 CP)	Language top-up (5 CP)		Language top-up (5 CP)	International Module during Exchange (5 CP)		
					Language top-up (5 CP)		
Exams	5 CP - 50%				at least 15 CP graded		
Soft Skills	Soft Skills (5 CP [ 2CP + 3 CP])			Elective CS Soft Skills (5 CP)	Software Project (5 CP)	Software Development Project (10 CP)	
Total CP	32	32	32	29	25	30	30

Internship / Bachelor project (18 CP) and Bachelor thesis (10 CP) + Defense (2 CP)

Language	German	English	Alternating	as offered
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If you only take 10 CP foreign language top-up (15 CP for roman languages), you can take additional 10 CP (or 5 CP) in computer science electives.

Semester	1	2	3	4	5	6	7
	Exams	20 CP - 50%				5 CP	
Computer Science I - Mandatory	Introduction to Computer Science (10 CP)	Algorithms and Data Structures (10 CP)			Software Engineering and IT Project Management (5 CP)		
	at least 5 CP graded - 50%						
	Databases (5 CP)		Modelling (5 CP)				
Exams					at least 10 CP graded (15 CP taken)		
CS II - Mandatory					Intelligent Systems (5 CP)	Secure Systems (5 CP)	
						Programming Paradigms (5 CP)	
Exams				at least 15 CP graded			
CS - Electives				CS Elective (5 CP)	CS or Math Elective (5 CP)		
				CS Elective (5 CP)	CS Elective (5 CP)		
					CS Elective (5 CP)		
Exams			at least 5 CP graded - 50%				
Technical CS			Technical Computer Science 1 (5 CP)	Technical Computer Science 2 (5 CP)			
Exams	at least 10 CP graded (20 CP taken) - 50%						
Math / Logic	Math 1 (5 CP)	Math 5 (5 CP)	Math 3 (5 CP)				
		Logic (5 CP)					
Exams		at least 10 CP graded (15 CP taken)					
Math / Theoretical CS		Math 2 (5 CP)	Basics of Theoretical Computer Science 1 (5 CP)	Basics of Theoretical Computer Science 2 (5 CP)			
Exams	at least 20CP graded - 50%					5 CP	
Language	English Soft Skills, Scientific Language (10 CP) (CP distribution: 2+2+2+4)						
	Language top-up (5 CP)	Language top-up (5 CP)	Language top-up (5 CP)	Language top-up (5 CP)		Scientific Seminar in English (5 CP)	
Exams	5 CP - 50%				at least 15 CP graded		
Soft Skills	Soft Skills (5 CP [ 2CP + 3 CP])				Software Project (5 CP)	Software Development Project (10 CP)	
						Elective CS Soft Skills (5 CP)	
Total CP	32	32	27	29	30	30	30

Internship / Bachelor project (18 CP) and Bachelor thesis (10 CP) + Defense (2 CP)

Language	German	English	Alternating	as offered
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If you only take 10 CP foreign language top-up (15 CP for roman languages), you can take additional 10 CP (or 5 CP) in computer science electives.

Semester	1	2	3	4	5	6	7
	Exams	8 CP - 50%	6 CP - 50%			5 CP	
Computer Science I - Mandatory	Introduction to Computer Science (10 CP)	Algorithms and Data Structures (10 CP)			Software Engineering and IT Project Management (5 CP)		
			at least 5 CP graded - 50%				
			Modelling (5 CP)	Databases (5 CP)			
Exams				at least 10 CP graded (15 CP taken)			
					Intelligent Systems (5 CP)	Secure Systems (5 CP)	
CS II - Mandatory						Programming Paradigms (5 CP)	
Exams					at least 15 CP graded		
CS - Electives					CS Elective (5 CP)	CS or Math Elective (5 CP)	
					CS Elective (5 CP)		
Exams			at least 5 CP graded - 50%				Internship / Bachelor project (18 CP) and Bachelor thesis (10 CP) + Defense (2 CP)
Technical CS			Technical Computer Science 1 (5 CP)	Technical Computer Science 2 (5 CP)			
Exams	at least 10 CP graded (20 CP taken) - 50%						
Math / Logic	Math 1 (5 CP)	Math 2 (5 CP)	Math 3 (5 CP)	Logic (5 CP)			
Exams		at least 10 CP graded (15 CP taken)					
Math / Theoretical CS		Math 5 (5 CP)	Basics of Theoretical Computer Science 1 (5 CP)	Basics of Theoretical Computer Science 2 (5 CP)			
Exams	at least 20CP graded - 50%				5 CP		
Language	English Soft Skills, Scientific Language (10 CP) (CP distribution: 2+2+2+4)						
	Language top-up (10 CP) German A2	Language top-up (10 CP) German B1	Language top-up (5 CP) German B2-1	Language top-up (5 CP) German B2-2	Scientific Seminar in German (5 CP)		
Exams	5 CP - 50%				at least 14 CP graded		
Soft Skills	Soft Skills 1+2 (5 CP [ 2CP + 3 CP])				Software Project (5 CP)	Elective CS Soft Skills (5 CP)	
						Software Development Project (10 CP)	
Total CP	32	32	27	29	30	30	30

Language	German	English	Alternating	as offered
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If you have more than A1 German at the beginning of your studies, you may substitute German A2 and German B1 for additional electives and take mandatory courses in earlier semesters, if they are available.

## VI. Annexes:

### 1. Standard curricula for Bilingual Computer Science German and English

The standard curricula are recommendations that take into account the semesters in which the respective compulsory courses are offered and according to which the Bachelor's degree course can be completed in the standard period of study of 7 semesters. However, students are free to deviate from these recommendations.

The professional internship can be completed before the 7th semester, especially if it is not completed as an integrated internship. It is also possible to split the internship and complete it in several semesters during the lecture-free period, for example.

The Bachelor's thesis can also be completed during a semester in which other modules are still being taken.

The degree program consists of a number of study areas, which can be found in the examination and standard study plans. The minimum number of CP that must be obtained through examinations is specified for each of these. The remaining coursework can be completed ungraded in accordance with Section 6 (3) of the study and examination regulations.

#### **Legend to the examination and standard curricula:**

Modules whose examination grades are weighted with less than 100% in the overall grade are marked with corresponding percentages. The specified number of CP must be completed with at least one grade in the marked area.

Modules with an explicit course name are compulsory modules in the respective degree program.

Special features of the individual course variants according to the explanations

A list of all compulsory elective modules can be found in the module handbook (module catalog + module list).



English courtesy translation.  
The German version is legally binding.

## **2. Course Variants in the Bilingual Computer Science Degree Program**

The objective of the Bilingual Computer Science course is to provide students with in-depth language skills in both English and German in addition to their specialist training in computer science. The course consists of a German and an English course variant, which correspond to the language in which the course is started.

### **2.1 German Course Variant**

In the German course variant, students generally have a German Abitur and appropriate English language skills. In this case, participation in the "English" module (10 CP) and at least 10 CP of certified and graded language lessons in a foreign language is compulsory; up to 20 CP can be taken.

Students in the German track are strongly encouraged to spend the 5th semester at a FIN partner university in an English-speaking country.

### **2.2 English Course Variant**

In the English track, students have very good English language skills, but generally lack sufficient German language skills for university studies. German language training is integrated into the course variant in the first four semesters. A2 is offered in the first semester, B1 in the second semester and B2 in the third and fourth semesters. In the first four semesters, students take part in English language courses. In the third year of study, students are expected to be able to participate in German and English language courses thanks to their German language training.

Furthermore, participation in the "English" module (10 CP) is compulsory in the English course variant.