FACULTY IV
ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

STUDY GUIDE

COMPUTER SCIENCE
Master of Science
Usage Hints

This study guide displays a lot of information in a compressed manner. Considering that it contains useful hints and tips to additional sources on our TU website. On www.tu-berlin.de a lot of pages can be found using the "quick access". Filling the field on the right side of the TU website with the correct number you are directed to the correspondent web page.

Imprint

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Dear Students of Computer Science,

Currently, English is the language of computing. Taking this into consideration we’ve revised our Master’s program and renamed it ‘Computer Science (Informatik)’. Starting with summer semester of 2016 the Master’s program ‘Computer Science (Informatik)’ will be lectured in English. This Master’s program will prepare you for an international career in computer sciences. Besides providing you with the necessary language skills, we aim to give you a more specified knowledge. And with this Master’s program we expect to welcome even more foreign students to Faculty IV and to Technische Universität Berlin.

Today, professional and scientific specialization is an important asset and very much needed when planning an international career. Building on your Bachelor’s degree we offer you further specialization in computer sciences. You need to decide early on where your interests lie and in which professional fields you plan to specialize in order to benefit from this Master’s course. Once you’ve decided on your specialization you should write your Master’s thesis in this specific field of study.

With TU Berlin you have opted for a top-ranking and forward-thinking university and courses that will help you specialize and prepare for a future-oriented market. In our Master’s program we combined all this with the recommendations of the ‘Fakultätentag Informatik’ and the TU9 – the association of the leading German universities of technology.

Our Master’s program attracts students from around the world. Prior preparation and qualifications vary in standards and contents. If you feel you lack some of the skills required for this Master’s program, please don’t hesitate to consult your lecturers. They will advise you where to focus your efforts. We expect you to be prepared to adapt to a highly self-reliant and self-responsible learning environment. The following study guide will provide you with information on which modules you’ll have to complete and which exams you’ll have to take, but it also informs you on your choices. The details are laid out in the study and examination regulations. Basic regulations concerning studies and examination organization may be found in the Regulations Governing General Study and Examination Procedures (AllgStuPO) of Technische Universität Berlin.

Relevant information regarding academics and teaching are published on the Faculty’s website. Please check the website regularly and make sure that we can reach you via your TU Berlin email address.

We recommend that you organize your study schedule as efficiently as possible and to take examinations as early as possible.

We also recommend you to consider taking part in one of our international student exchange programs or to sign up for a dual degree with a university abroad. We will help you to choose and prepare for such an endeavor with our expertise and relevant programs.

I wish you an inspiring and successful time at our Faculty.

Professor Dr.-Ing. Sibylle Dieckerhoff
Dean of Studies at Faculty IV
Electrical Engineering and Computer Science
Study Goals and Degree

This Master’s program serves to provide you with professional qualifications as well as enhance your skills for independent scientific work in the field of Computer Science and related scientific fields. Upon completion of the Master’s degree you will have gained advanced specialized knowledge and be up to date on current research topics in the field of Computer Sciences. Seminars, projects and Master’s theses will be directly integrated into running research work carried out by the faculties in your specific field of study. Graduates will receive the academic degree of ‘Master of Science’ (M. Sc.). This degree will prepare you to work independently or occupy leading positions in industry, administration or science. You will be able to start your own business or continue your professional education in postgraduate programs.

Organization of the Master’s program

Computer Science

This four-semester Master’s program is based on a range of electives and requires you to write a final Master’s thesis. Building on skills you acquired during the Bachelor’s program, the Master’s core studies will provide you with in-depth knowledge. It will impart you with the relevant skills to manage specific professional techniques and to adopt innovative and creative problem-solving strategies as well as equip you with an understanding of current technologies in the field of computing sciences and in related scientific and professional fields. Therefore the modules are assigned to specific study areas. The organization of the program into study areas allows you to choose your modules with thematic focal points that will feed directly into your individual study profiles.

Compulsory Electives

The compulsory electives are comprised of a total worth of 60 to 66 CP. You may choose modules worth 30 to 42 CP from one of the following study areas:

- Data and Software Engineering
- Embedded Systems and Computer Architectures
- Foundations of Computing
- Cognitive Systems
- Digital Media and Human-Computer Interaction
- Distributed Systems and Networks

For the additional compulsory electives, modules worth 18 to 36 CP, you may choose from other listed study areas. For the catalogs and module overviews, please check 168536. As electives you have to complete modules worth 24 to 30 CP with thematic focus on both technical skills and general skills. You may choose modules from all courses offered by the TU Berlin or other universities or colleges of equal standing within the scope of the Higher Education Framework Act (Hochschulrahmengesetz) as well as from courses...
offered by equivalent foreign universities and institutions of higher education.

**Recommended Progress of Study**

The following table shows the course of study as recommended in the Study and Examination Regulations. The described course of study gives you an example and provides for a general guideline on how to organize your Master’s program.

| 1st semester | 30 CP | Compulsory Electives Study Area 30 to 42 CP | Compulsory Electives Study Areas 18 to 36 CP | Electives 24 to 30 CP |
| 2nd semester | 30 CP | | | |
| 3rd semester | 30 CP | | | |
| 4th semester | 30 CP | Master’s thesis 30 CP | | |

**The Mentoring Program**

Our experience has led us to the understanding that students face various challenges during the course of their studies. In order to meet your needs Faculty IV is currently in the process of developing a new mentoring program. This program will offer students guidance and support throughout the three phases of their studies: the initial phase of studies (usually semester 1 to 2), the orientation phase (semester 2 to 4), the phase of in-depth specialization (semester 5 to 10).

Information on the particular subprograms may be found online under the headers of the corresponding courses (www.isis.tu-berlin.de). The supplied contents are intended to help you to find your way through your studies and to give you orientation for your day to day routine at our university.

The course ‘Studieren an der Fakultät IV (EECS)’ (Studying at Faculty IV), short: EECS-Studium (www.isis.tu-berlin.de/course/view.php?id=672) provides you with a general introduction on all aspects of your Master’s program and studies. It offers a useful compilation of references, valuable hints, deadlines as well as helpful advise on a range of issues related to your studies. All information is updated on a regular basis.

**Studying Abroad**

Today’s labor market is a competitive global arena, that asks of university graduates to not only have proficient knowledge of foreign languages but also professional and intercultural experience. Thus you may consider during your Master’s program a longer stay abroad. Apart from supplying you with a significant advantage in regard to any future employment, a study stay in a foreign country proves often to be also a very unique personal experience. Student exchange programs, international internships or employment abroad give you not only the opportunity to enhance your specialized know-how, but also to broaden your personal views on differences in languages, cultures and everyday life. Acquired intercultural skills, flexibility and commitment demonstrated by your
stay abroad are important assets for future employment. To make the most out of your stay abroad, both professionally and personally, you need to prepare this time as thoroughly as possibly. Thus we recommend, you start with your preparation well in advance and make proficient use of our informative events and consultation. There are many possibilities and a wide range of student exchange programs, amongst which Erasmus+, the German Academic Exchange Service (DAAD), Fulbright are the best-known, but not the only ones. Each semester the faculty holds different informative events, which are usually advertised online in advance. For personal assistance and information you may of course contact the TU Berlin International Office (5190). The international office has experience in helping you choose and organizing your stay abroad. Furthermore, General Student Counseling (see 133630) provides you with any information pertinent to internships in Germany and abroad.

Exchange Programs at Faculty IV

As part of the Erasmus+ exchange program, the Faculty currently cooperates with more than 40 universities in 15 European countries. The TU Berlin hosts students from participating universities and has been sending students abroad for years. Please see 96169 for the latest brochure and the exchange possibilities offered by the Faculty. Apart from this specifically Europe-targeted program, the Faculty also engages in non-European exchange programs, currently with:

- Universidade Federal do Rio Grande do Sul (UFRGS) in Porto Alegre (Brazil). For further information consult 29680.
- Shanghai Jiao Tong University in China. 150631

Double-Degree Programs at Faculty IV

Undoubtedly, participating in a double-degree program is the highlight of any study abroad. By participating in a double-degree program you’ll have the opportunity to study at the TU Berlin and at a second university abroad. Upon successful completion of your studies, you will be awarded two academic degrees. For the benefit of both German and foreign students, the Faculty has entered into several double-degree agreements. Our current partners are in China, France, Korea and Poland. 150631. Information about all programs of the Faculty IV: 150321

Please contact the Faculty IV’s International Studies Coordinator, Wolfgang Brandenburg when you plan and prepare a double degree abroad. See for contact 147520.
Study and Examination Regulations

Annotation

Please note that only the original German Version is legally binding! This version is an unofficial reading version. The text published in the Official Gazette of Technische Universität Berlin is the authoritative and legally binding version.

On 6 May 2015, the Faculty Council of Faculty IV – Electrical Engineering and Computer Sciences – of Technische Universität Berlin enacted the following Study and Examination Regulations for the Master’s program in Computer Science (Informatik), in accordance with Section 18 (1) no. 1 of the University Charter of Technische Universität Berlin and Section 71 (1) no. 1 of the Act on Higher Education Institutions in the State of Berlin (Berliner Hochschulgesetz, BerlHG), as amended on 26 July 2011 (Berlin Gazette of Laws and Ordinances [GVBl.], page 378).

I. General Section

Section 1 Scope of Application

These study and examination regulations set down the objectives and organization of studies as well as the requirements for and execution of examinations in the Master’s program in Computer Science at Faculty IV – Electrical Engineering and Computer Science. They supplement the Regulations Governing General Study and Examination Procedures (AllgStuPO) of Technische Universität Berlin by course-specific regulations.

Section 2 Entry Into Force/Expiry

(1) These regulations shall come into force on the day after their publication in the Official Gazette of Technische Universität Berlin (Amtliches Mitteilungblatt – AMBl.).

(2) The present regulations supersede nine semesters, from the date of their enforcement on, the study regulations for the Master’s program Informatik of 10 March 2010 (AMBI. TU 18/2011, p. 293) in the version of 6 February 2013 (AMBI. TU 5/2013, p. 50) and the examination regulations for the Master’s program Informatik of 10 March 2010 (AMBI. TU 18/2011, p. 298). Students who have not completed their Master’s program in accordance with the regulations sentence (1), upon this amendment, shall be automatically subject to the present regulations. The examination board decides upon the accreditation of their previous academic performance.

(3) The present regulations apply to all students who enroll in the Master’s program Computer Science (Informatik) at Technische Universität Berlin after the enactment of the present study and examinations regulations. Students who enrolled for the Master’s Program Informatik of Technische Universität Berlin before the present regulations were enacted may decide within the set time limit (see section (2)) according to which of the two regulations they wish to continue their courses. This decision is binding and irrevocable and has to be registered with the relevant central body.

II. Objectives and Organization of Studies

Section 3 Qualification Objectives, Course Contents and Professional Fields of Activity

(1) This Master’s program will provide graduates with knowledge of subject-specific methods and approaches pertinent to the field of computer science. Graduates will learn to apply these tools and be competent to assess their viability for specific application scenarios. Graduates will be widely acquainted with core
provide students with the opportunity to work and conduct their research largely in small working groups. Projects shall offer the opportunity not only to train the students’ practical skills but also their proficiency at organizing teamwork on their own. Seminars shall help to enhance the students’ presentation skills and their capability to work through the subject matter and problem areas independently and provide them with the opportunity to present and to discuss their own solutions. The Master’s thesis shall, in addition, enhance the students’ ability to plan and organize a specific and complex research project.

(3) There is no valid general job description for a computer scientist. Employment varies depending on industries, enterprises, and working environments, and often asks for very specific know-how. Yet, the core competencies of any computer scientist have proven to be the ability to develop specific performance solutions and to come up with increasingly specialized and innovative problem-solving concepts. This Master’s program aims, therefore, to upgrade your basic skills as a computer scientist and to provide you with the essential specialization in the field of computer science; with this Master’s program, you may seek employment internationally, start up your own enterprise, or even pursue a career in research.

Section 4 Course Start, Standard Period of Study and Required Coursework

(1) The course may be started in the winter or summer semester.

(2) The standard time-to-degree, including the writing of the Master’s thesis, shall be four semesters.

(3) The required coursework in the Master’s program amounts to 120 CP.

(4) The educational program and the entire examination procedure are designed and organized in such a way that the program may be completed within the standard time-to-degree.
Section 4a Admission Requirements

(1) The requirement for admission to the Master’s program Computer Science (Informatik) is a university degree that qualifies for a profession and is comparable to the Bachelor’s degree in Computer Science at TU Berlin or a similar, related course of study. A similar or related course of study must include at least 60 CP in the field of computer science, comprising:
- at least 12 CP in the field of Theoretical Computer Science
- at least 12 CP in the field of Computer Engineering or Information Technology
- at least 12 CP in the field of Methodological and Practical Computer Science as well as at least 18 CP in the field of Mathematics.

The examination board shall decide if the presented qualifications meet the required standards.

(2) English is the language of instruction. Evidence of English proficiency at level B2 according to the Common European Framework of Reference for Languages (CEFR) is mandatory for admission to the Master’s program. The examination board shall decide on the recognition of verifiable acquired English skills. The examination board informs on which evidence of language proficiency is recognized.

Section 5 Organization of Studies

(1) Students have the right to plan the progress of their own course of study as long as it complies with the provisions of these Regulations Governing Study and Examination Procedures. This does not apply to obligations arising from the definition of subject-specific admission requirements for modules. Though students may organize their progress by themselves, we attached for your consideration a good example for a study schedule (Annex (2).

(2) Students are to render an academic performance that attains a total amount worth of 120 CP, comprising 90 CP in modules and 30 CP in the Master’s thesis.

(3) The compulsory electives are comprised of a total worth of 60 to 66 CP. You may choose modules worth 30 to 42 CP from one of the following study areas:
- Data and Software Engineering
- Embedded Systems and Computer Architectures
- Foundations of Computing
- Cognitive Systems
- Digital Media and Human Computer Interaction
- Distributed Systems and Networks

Modules for these study areas are listed in the respective module list. For the additional compulsory electives, modules worth 18 to 36 CP that are to be completed, you may choose from the other listed study areas.

(4) Students are obliged to participate in one project worth at least 9 CP and a seminar from the compulsory electives area.

(5) Students may choose elective modules worth 24 to 30 CP from the entire range of subjects of TU Berlin, other universities and equivalent institutions of higher education within the scope of application of the Berlin State Higher Act, as well as institutions of higher education and universities abroad that have been accredited as equivalent. These modules shall serve for the acquisition of additional specialized and interdisciplinary skills. Students are recommended to choose from modules that factor societal, social and/or gender and diversity aspects. We also recommend modules that qualify for entry to a profession, such as modules from the fields of Electronic Engineering or Mathematics. The electives may also include modules facilitating skills in English or other foreign languages. English modules from level C1 (GER, according to CEFR) on will be credited.

(6) Students are recommended to study abroad. During their studies abroad they shall engage in graded studies and exams. Achievements during this time may be recognized upon request if they are equivalent to the modules laid out by the Study and Examinations Regulations of TU Berlin and if they complement the Master’s programs modules. The examination
board decides on specific requirements. We advise you to organize your study schedule and examinations abroad accordingly. To make sure that your achievements are eligible for accreditation at TU Berlin, we advise you to present your study schedule and all planned achievements well ahead of your departure to your module supervisor or even the examination board. The faculty offers important advice and support throughout your planning phase and your stay abroad. You may consult your module supervisor, the General Student Counseling, the International Studies Coordinator, the Academic Coordinator or the examination board. The TU Berlin and the Faculty IV hold agreements and joint programs with several international universities and higher education institutions. Please keep yourself informed. There may be particular requirements for your study stay with these partner institutions.

Upon return, you will have to present your achievements to the examination board if you wish to obtain accreditation of the credits gained during your stay abroad. We advise you to schedule your stay abroad for your second or third semester as these two semesters are, according to our experience, the most favorable times for studying abroad during your Master’s program.

II. Requirements and Conduct of Examinations

Section 6 Purpose of the Master’s Examination

The Master’s examination serves the purpose of assessing whether a candidate has reached the qualification objectives as laid out in Section 3 of these regulations.

Section 7 Master’s Degree

Upon successful completion of the Master’s examination, Faculty IV – Electrical Engineering and Computer Science – awards to the graduate the academic degree ‘Master of Science’ (M. Sc.) on behalf of TU Berlin.

Section 8 Scope of the Master’s Examination, Determination of the Overall Grade

(1) The Master’s examination consists of the module examinations (Annex 1) as specified in the module list and the Master’s thesis according to Section 9.

(2) In accordance with Section 47 of the Regulations Governing General Study and Examination Procedures (AllgStuPO), the final grade is assessed on the basis of all graded and applicable module examinations as they are stated in the module list and the Master’s thesis. The maximum amount of all modules that shall not be counted into the final grade, must not exceed 30 CP and shall include electives worth 12 CP. Subject to the final choice of all modules that are credited for the final grade shall be generally those modules with the lowest credits. In the case of two equivalent modules, the regulations foresee that the most recent module shall be disregarded. All not graded modules or those that are marked ‘ungraded’ shall primarily be included in the final grade. The Master’s thesis is weighted with 1 and determines the final grade.

Section 9 Master’s Thesis

(1) The Master’s thesis shall generally be written in the fourth semester. The Master’s thesis amounts to 30 CP and is to be produced within 26 weeks. Upon the candidate’s submission of a duly substantiated request, the examination board may extend the deadline for completion of the Master’s thesis by one month and in the case of illness up to three months. Any other requests for exemption are to be reviewed and decided upon by the examination board.

(2) The topic of the Master’s thesis may be rejected once, however only within the first six weeks of being issued by the relevant department of the Central University Administration.

(3) The procedure of application for admission to a final thesis and the latter’s assessment is regulated by the Regulations Governing General Study and Examination Procedures (AllgStuPO), in force at the time of application.
Section 10 Types of Examination and Enrollment for Examinations

(1) Types of examination and the procedure of enrollment for module examinations are regulated by the Regulations Governing General Study and Examination Procedures (AllgStuPO), in force at the date of application.

(2) Compulsory elective modules or elective modules from other faculties are subject to the examination regulations as laid out in the module descriptions.

For the Regulations Governing General Study and Examination Procedures (AllgStuPO) at TU Berlin see 75846
Overview

All beginnings are difficult ...
To ease your first steps in our Master’s program we strived to compile a list of addresses of the most important contacts at Faculty IV and TU Berlin, including their online links.

Faculty IV

Faculty IV Electrical Engineering and Computer Science
Sekr. MAR 6-1
Marchstraße 23, D 10587 Berlin
www.eecs.tu-berlin.de
Phone: +49 30/314-2 22 29
Fax: +49 30/314-2 17 39
Dean’s Office 2013
Faculty Administration 2018

Academics and Teaching

Student Board – Information Systems
Management
Room MAR 6.021
Phone: +49 30/314-2 10 05
studienberatung-cs@eecs.tu-berlin.de
Consultation hours: online 147510

Examination Board – Information Systems
Management
Verena Salomo
Room MAR 6.023
Phone: +49 30/314-7 34 00
verena.salomo@tu-berlin.de
Consultation hours:
Tue 9–12 AM, Thu 9 AM – 4 PM 141422

Academic Coordinator
Professor Dr. Stephan Kreutzer
Room TEL 711a

Phone: +49 30/314-2 90 88
stephan.kreutzer@tu-berlin.de 22640

Dean of Studies
Professor Dr.-Ing. Sibylle Dieckerhoff
Room E 11
Phone: +49 30/314-2 55 11
sibylle.dieckerhoff@tu-berlin.de 100634

Studies and Teaching Coordinators
Manuela Gadow
Room MAR 6.019
Phone: +49 30/314-2 51 55
manuela.gadow@tu-berlin.de

Hanna Wesner
Room MAR 6.019
Phone: +49 30/314-7 31 86
Hanna.wesner@tu-berlin.de

Student Initiative of Faculty IV
Freitagsrunde
Room MAR 0.005
Phone: +49 30/314-2 13 86/-7 57 69
info@freitagsrunde.org

International Issues

International Student Counseling
Dr. Nazir Peroz (Head)
Room FH 519
Phone: +49 30/314-2 78 97
peroz@tu-berlin.de
Consultation hours: Wed 10–12 AM
Center for International and Intercultural Communication (ZiiK) 88927

International Studies Coordinator
Wolfgang Brandenburg
Room MAR 6.020
Phone: +49 30/314-2 47 09
wolfgang.brandenburg@tu-berlin.de
Consultation hours:
Tue, Thu 9.30–10.30 AM and by arrangement 147520
Office for Women’s Affairs
Rebecca Jendges
Room MAR 6.007
Phone: +49 30/314-2 58 09
rebecca.jendges@campus.tu-berlin.de
Consultation hours: Wed 10–12 AM and by arrangement
Deputy: Cathrin Bunkelmann
Room MAR 5.011
Phone: +49 30/314-7 35 57
cathrin.bunkelmann@tu-berlin.de
Consultation hours: Thu 10–12 AM

Liaison Lecturer for Doctoral Candidates
Professor Dr.-Ing. Adam Wolisz
Phone: +49 30/314-2 38 19
wolisz@tkn.tu-berlin.de
tkn-sekr.institut@lists.tu-berlin.de

Contact for Entrepreneurs
Professor Dr.-Ing. Thomas Sikora
Room EN 302
Phone: +49 30/314-2 57 99
sikora@nue.tu-berlin.de

Student Services
Main Building (H)
Straße des 17. Juni 135
Express telephone service: +49 30/314-2 99 99
telefonservice@tu-berlin.de

Application and Enrollment
Section IA1 – Graduate Admissions
Room H 30
Express telephone service: +49 30/314-2 99 99
telefonservice@tu-berlin.de

Examinations
Section IB4 – Examinations
Room H 23
Phone +49 30/314-2 25 59
Consultation hours: Mon, Thu, Fr 9.30–12.30 AM, Tue 1–4 PM

General Student Counseling
Room H 70

Phone: +49 30/314-2 56 06/-2 59 79
studienberatung@tu-berlin.de

Psychological Counseling
Room H 60/61
Phone: +49 30/314-2 48 75/-2 53 827/-2 52 35
psychologische-beratung@tu-berlin.de

Representative of Students With Disabilities and Chronic Diseases Mechthild Rolfes
Room H 71
Phone: +49 30/314-2 56 07
mechthild.rolfes@tu-berlin.de
Consultation hours: Tue 4–6 PM

Important Links
Faculty IV, TU Berlin
Introductory Days of Faculty IV
Campus Center
Contact point for application/enrollment
IT Service Center ‘tubIT’
PC rooms, WLAN, etc.
Course Catalog
MOSES (module descriptions, selection of tutorials, etc.)
Information Platform ‘ISIS’
Selection of the mentor, scripts, forums, wikis to individual teaching units
Studentenwerk
Student loans (BAföG), student housing, dining facilities, etc.
Studentenwerk-berlin.de/jobs/index
ASTA – Student’s Union
http://asta.tu-berlin.de
Freitagsrunde
Student Initiative of Faculty IV
www.freitagsrunde.org
## Abbreviations

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<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>AES</td>
<td>Embedded Systems Architecture</td>
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<tr>
<td>AKT</td>
<td>Algorithmics and Computational Complexity</td>
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<td>AOT</td>
<td>Agent Technologies in Business Applications and Telecommunications</td>
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<td>APA</td>
<td>Occupational Psychology and Pedagogics</td>
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<td>AV</td>
<td>Next Generation Networks</td>
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<td>AVT</td>
<td>Mikroelektronik – Aufbau- und Verbindungstechniken</td>
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<td>BigDaMa</td>
<td>Big Data Management</td>
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<tr>
<td>CG</td>
<td>Computer Graphics</td>
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<td>CIT</td>
<td>Complex and Distributed IT-Systems</td>
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<td>CommIT</td>
<td>Communications and Information Theory</td>
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<td>CP</td>
<td>Credit points/Leistungspunkte (LP)</td>
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<td>CV</td>
<td>Computer Vision and Remote Sensing</td>
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<td>DCAITI</td>
<td>Daimler Center for Automotive Information Technology Innovations</td>
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<td>DIMA</td>
<td>Database Systems and Information Management</td>
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<td>EA</td>
<td>Electrical Drives</td>
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<td>EET</td>
<td>Electrical Energy Storage Technology</td>
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<td>EMSP</td>
<td>Electronics and Medical Signal Processing</td>
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<td>Fak.</td>
<td>Faculty/Fakultät</td>
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<td>FG</td>
<td>Chair</td>
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<td>HFT-Ph</td>
<td>Hochfrequenstechnik – Photonics</td>
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<td>HLB</td>
<td>Semiconductor Devices</td>
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<td>HT</td>
<td>High Voltage Engineering</td>
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<td>INET</td>
<td>Intelligent Networks and Management of Distributed Systems</td>
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<td>ISE</td>
<td>Information Systems Engineering</td>
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<td>IV</td>
<td>Integrated classroom learning</td>
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<td>KBS</td>
<td>Communication and Operating Systems</td>
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<td>KI</td>
<td>Artificial Intelligence Group</td>
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<td>KO/CO</td>
<td>Colloquium</td>
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<td>LaS</td>
<td>Logic and Semantics</td>
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<td>LE</td>
<td>Power Electrics</td>
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<td>LT</td>
<td>Lighting Engineering</td>
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<td>M</td>
<td>Oral examination/Mündliche Prüfung</td>
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<td>MDT</td>
<td>Electronic Measurement and Diagnostic Technology</td>
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<td>MKP</td>
<td>Modelling of Cognitive Processes</td>
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<td>ML</td>
<td>Machine Learning</td>
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<td>MSC</td>
<td>Mixed Signal Circuit Design</td>
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<td>MTV</td>
<td>Models and Theory of Distributed Systems</td>
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<td>MWT</td>
<td>Microwave Engineering</td>
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<td>NEURO</td>
<td>Neurotechnology</td>
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<td>Neural Information Processing</td>
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<td>NUE</td>
<td>Communication Systems</td>
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<td>P</td>
<td>Portfolio examination</td>
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<td>PJ</td>
<td>Project/Projekt</td>
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<td>PR</td>
<td>Practical training/Praktikum</td>
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<td>QDS</td>
<td>Quality Engineering of Open Distributed Systems</td>
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<td>QU</td>
<td>Quality and Usability Lab</td>
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<td>ROB</td>
<td>Robotics and Biology Laboratory</td>
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<td>RS</td>
<td>Control Systems</td>
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<td>S</td>
<td>Written examination/Schriftliche Prüfung</td>
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<td>SE</td>
<td>Seminar</td>
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