

FACULTY IV

Electrical Engineering and
Computer Science



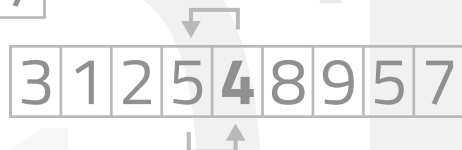
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Study Guide

COMPUTER SCIENCE

Master of Science



Imprint

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COMPUTER SCIENCE

Master of Science

Edition 2018/19



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Usage Hints

This study guide summarizes a lot of information. 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.



Preface by the Dean of Studies

Dear Students!

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. 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.

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.

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 is published on the Faculty's website. Please check the websites regularly and make sure 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 early. 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.

Prof. Dr.-Ing. Sibylle Dieckerhoff
Dean of Studies at Faculty IV
Electrical Engineering and Computer Science



Your Studies

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 chairs.

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

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 innovate 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 (see an overview at ► 184947). A study area accumulates modules of different chairs under a specific focus. 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. The study and examination regulations define which rules are applicable for choosing the study areas.

Compulsory Electives

The compulsory electives are comprised of a total worth of 60–66 CP. You may choose modules worth 30–42 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 18–36 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 24–30 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 in Berlin and Brandenburg as well as from courses offered by equivalent foreign universities and institutions of higher education.

Recommended Progress of Study

The table below 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.

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 1–2), the orientation phase (semester 2–4), the phase of in-depth specialization (semester 5–10).

For a student-to-student-exchange you can also use the platform ISIS (www.isis-tu-berlin.de). Additional to the module-connected courses you can address more general topics within the course "Studieren an der Fakultät IV (EECS)", short: EECS-Studium (www.isis.tu-berlin.de/course/view.php?id=672). 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.

Studying Abroad

Today's labor market is a competitive global arena, that asks of university graduates to not

Computer Science (Informatik)			
1st semester 30 CP	Compulsory Electives Study Area (30–42 CP)	Compulsory Electives Study Areas (18–36 CP)	Electives (24–30 CP)
2nd semester 30 CP			
3rd semester 30 CP			
4th semester 30 CP	Master's thesis (30 CP)		

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 assistance and information you may contact the TU Berlin's Students Mobility and International Students Office (► 5190). They offer advisory and counseling services for your stay abroad. Furthermore, the Career Service (► 165150) 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 stay or double degree abroad (► 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, last amended on 14 December 2016, 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 Technis-

che 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 Mitteilungsblatt – 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 (AMBl. TU 18/2011, p. 293) in the version of 6 February 2013 (AMBl. TU 5/2013, p. 50) and the examination regulations for the Master's program Informatik of 10 March 2010 (AMBl. 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 competencies in computer science, such as analysis, abstraction and formal description of relevant problems, and they will be skilled in finding hardware and software solutions and applying them accordingly. Graduates will gain in-depth knowledge of specific aspects of computer science. On the basis of their specialized knowledge, they will be able to evolve existing methods on their own account. Graduates will acquire the ability to analyze and find targeted solutions for complex technical and scientific problems in the field of Information and Communication Technology. They will be able to independently understand and structure specific technical and scientific subject matters and display these in appropriate written and oral forms. Gradu-

ates will obtain the ability to reflect scientific knowledge critically. They will be capable of acting responsibly within their scientific environment and society and stay considerate of ethical standards. They will be skilled in cooperating in intercultural contexts and have highly developed social and communication skills in order to occupy outstanding positions within multidisciplinary teams.

(2) Important elements of this Master's program are the analysis of shortcomings and the search for equivalent computer-based response strategies. This includes the development of algorithms and programs in distributed systems, networks and embedded systems, the analysis and manipulation of extremely large quantities of data as well as the modulation of fundamental aspects of computing systems. This also includes the understanding of the interconnection between computer science and other fields – for example, human-computer interaction – and their interdisciplinary aspects. All subjects of this Master's program shall enhance the graduate's analytical and creative skills as these are highly sought after in any professional and scientific work and in a society that is increasingly linked by technology. In order to facilitate skills and competence beyond specialization in computer science, this Master's program aims to 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

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, respectively from the study area Information Systems.

- (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) 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.

III. 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 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.
- (4) The Master's thesis must not obtain a non-disclosure statement or any other secrecy arrangement that goes beyond the standard confidentiality and due diligence obligations.

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

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 Counseling

Room MAR 6.021
 Phone: +49 30/314-2 10 05
studienberatung-cs@eecs.tu-berlin.de
 Consultation hours: ► 147510

Office of the Examination Board

Pia Janik, Romy Klecker, Verena Salomo
 Room MAR 6.023
 Phone: +49 30/314-7 34 00
eb-cs@eecs.tu-berlin.de
 Consultation hours: ► 35561

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 Coordination

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
 ► 147625

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

Diana Baumann
Room MAR 6.007
Phone: +49 30/314-2 58 09
d.baumann@campus.tu-berlin.de
Consultation hours: ► 130117

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
► 130117

Liaison Lecturer for Doctoral Candidates

Prof. Dr. habil. Odej Kao
Sekt. TEL 12-5
Phone: +49 30/314-2 89 70
odej.kao@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
Consultation hours: Thu 2–3 pm

Student Services

Office of Student Affairs

Straße des 17. Juni 135,
Main Building (H)
Express telephone service: +49 30/314-2 99 99
telefonservice@tu-berlin.de
► 133275

Examination Office

Team 2
Straße des 17. Juni 135,
Main Building (H), Room H 0010
Phone +49 30/314-2 49 92
Consultation hours: Mon, Thu, Fr 9.30–12.30 am,
Tue 1–4 pm
► 22401

General Student Counseling

Straße des 17. Juni 135,
Main Building (H), Room H 0070
studienberatung@tu-berlin.de
▶ 133206

Psychological Counseling

Straße des 17. Juni 135,
Main Building (H), Room H 0059/60/61
Phone: +49 30/314-2 48 75/-2 53 82/-2 52 35
psychologische-beratung@tu-berlin.de
▶ 133594

**Representative of Students with Disabilities
and Chronic Diseases**

Janin Dziamski
Straße des 17. Juni 135
Main Building (H), Room H 0060
Phone: +49 30/314-2 56 07
janin.dziamski@tu-berlin.de
▶ 40950

Important Links

Faculty IV, TU Berlin ▶ 115

Introductory Days of Faculty IV ▶ 150319

Campus Center ▶ 142817
Contact point for application/enrollment

IT Service Center 'tubIT' ▶ 163

IT-Service der Fakultät IV „eecsIT“
PC pools, User support ▶ 24768

Course Catalog ▶ 80594

**MOSES (module descriptions, selection of
tutorials, etc.)** www.moses.tu-berlin.de/home

Information Platform 'ISIS'

Scripts, forums, wikis to individual
teaching units
www.isis.tu-berlin.de

Studierendenwerk

Student loans (BAföG), student housing,
dining facilities, etc.
www.studentenwerk-berlin.de/jobs/index

AStA – Student's Union

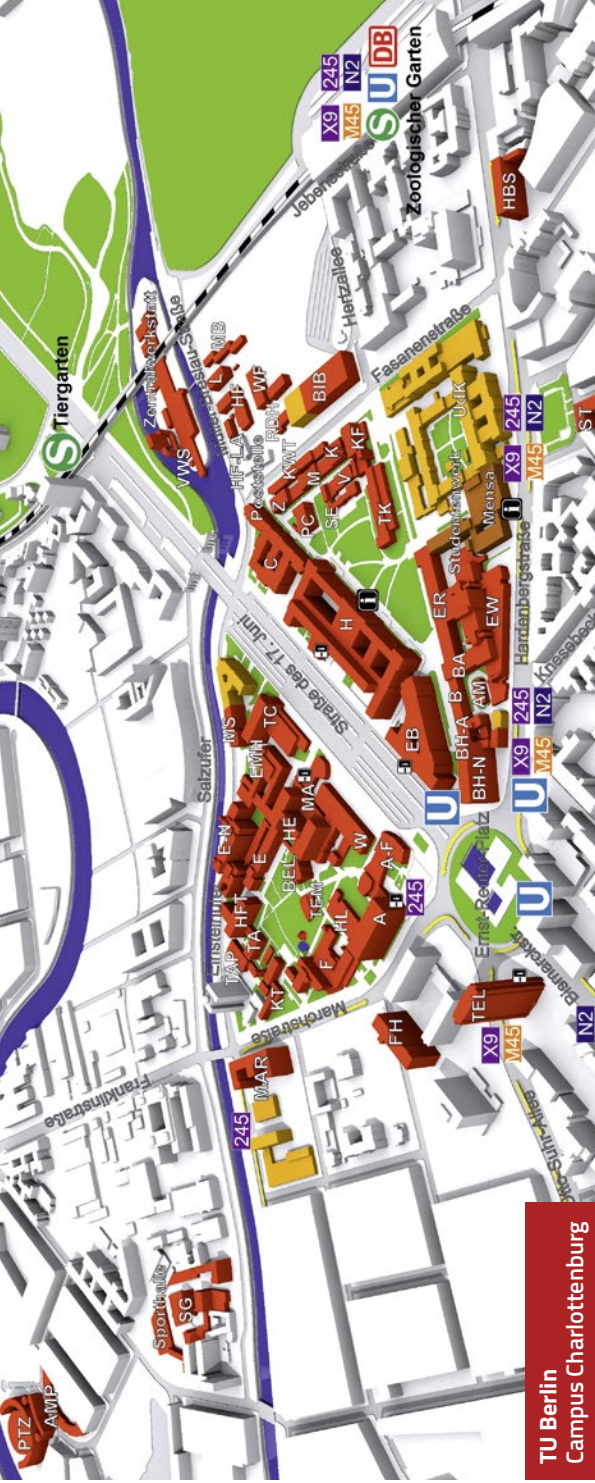
<http://asta.tu-berlin.de>



Abbreviations

ADT	Algorithmic Decision Theory	AES	Electronics and Medical Signal Processing
	Embedded Systems Architecture		
AKT	Algorithmics and Computational Complexity	Fak.	Faculty/Fakultät
ALGO	Efficient Algorithms	FG	Chair
AOT	Agent Technologies in Business Applications and Telecommunications	HF-Ph	Hochfrequenztechnik – Photonics
ASET	Automated Systems Engineering Technologies	HLB	Semiconductor Devices
AV	Next Generation Networks	HT	High Voltage Engineering
AVT	Mikroelektronik – Aufbau- und Verbindungstechniken	IGNC	Industry Grade Networks and Clouds
		INET	Intelligent Networks and Management of Distributed Systems
BigDaMa	Big Data Management	IoT	Internet of Things for Smart Buildings
		ISE	Information Systems Engineering
CCAN	Control of Convergent Access Networks	IV	Integrated classroom learning
CG	Computer Graphics		
CIT	Complex and Distributed IT-Systems	KBS	Communication and Operating Systems
CommIT	Communications and Information Theory	KI	Artificial Intelligence Group
CP	Credit points/Leistungspunkte (LP)	KO/CO	Colloquium
CV	Computer Vision and Remote Sensing	LaS	Logic and Semantics
		LE	Power Electronics
		LT	Lighting Engineering
DIMA	Database Systems and Information Management	M	Oral examination/ Mündliche Prüfung
DSI	Distributed Security Infrastructures	MCC	Mobile Cloud Computing
		MDT	Electronic Measurement and Diagnostic Technology
EA	Electrical Drives	MKP	Modelling of Cognitive Processes
EET	Electrical Energy Storage Technology		

ML	Machine Learning	SNET	Service-centric Networking
MSC	Mixed Signal Circuit Design	SWS	Course hours per week/ Semesterwochenstunden
MTV	Models and Theory of Distributed Systems		
MWT	Microwave Engineering	TET	Theoretische Elektrotechnik
		TFD	Technology for Thin Film Devices
NEURO	Neurotechnology	TKN	Telecommunication Networks
NI	Neural Information Processing		
NUE	Communication Systems	UE	Excercise/Übung
ODS	Open Distributed Systems	VL	Lecture/Vorlesung
		VOS	Open Distributed Systems
P	Portfolio examination		
PCS	Photonic Communication Networks	WHS	Werkstoffe der Hetero- Systemintegration
PJ	Project/Projekt		
PR	Practical training/Praktikum		
		Ziik	Centre for International and Intercultural Communication
QDS	Quality Engineering of Open Distributed Systems		
QU	Quality and Usability Lab		
ROB	Robotics and Biology Laboratory		
RS	Control Systems		
RSiM	Remote Sensing Image Analysis		
S	Written examination/Schriftliche Prüfung		
SE	Seminar		
SE	Sensor & Actuator Technology		
SECT	Security in Telecommunications		
SENSE	Sustainable Electric Networks and Sources of Energy		
SESE	Software and Embedded Systems Engineering		



TU Berlin Campus Charlottenburg

A	Architekturgebäude Straße des 17. Juni 152	C	Chemiegebäude Straße des 17. Juni 115	HE	Hörsaalgebäude Elektrotechnik Straße des 17. Juni 136	MA	Mathematikgebäude Marchstraße 23	TC	Technische Chemie Straße des 17. Juni 124
A-F	Architekturgebäude Flachbau Straße des 17. Juni 152	E	Elektrotechnische Institute, Altbau Einstieflufer 19	HF	Hermann-Föttinger-Gebäude Müller-Breslau-Straße 8	MAR	Müller-Breslau-Straße 11–12	TEL	ehem. Telefonen-Hochhaus Ernst-Reuter-Platz 7
AM	Alte Mineralogie Hardenbergstraße 38	E-N	Elektrotechnische Institute, Neubau Einstieflufer 17	HF-LA	Energielelabor Müller-Breslau-Straße 8	MS	Mechanische Schwingungslehre Einstieflufer 5	TEM	Transелектроненмикроскопие Marchstraße 10
AMP	Anwendungszentrum Mikroproduktionstechnik Pascalstraße 13–14	EB	Erweiterungsbau Straße des 17. Juni 145	HFT	Hochfrequenztechnik Einstieflufer 25	PC	Physikalische Chemie Straße des 17. Juni 135	TK	Thermodynamik und Kältetechnik Straße des 17. Juni 135
B	Bauingenieurgebäude Hardenbergstraße 40A	EMH	Gebäudeteile Elektromaschinen (EM) und Hochspannungstechnik (HT) Einstieflufer 11	HL	Heizung und Lüftung Marchstraße 4	PTZ	Produktionstechnisches Zentrum Pascalstraße 8-9, 13–14	V	Verformungskunde, Zentraleinrichtung Hochschulsport (ZEH) Straße des 17. Juni 135
BA	Alter Bauingenieurflügel (im Physikalische Gebäude) Hardenbergstraße 40	ER	Ernst-Ruska-Gebäude Hardenbergstraße 36A	K	Kraftfahrzeuge Straße des 17. Juni 135	RDH	Rudolf-Drawe-Haus Fasanenstraße 89	VWS	ehem. Versuchsanstalt für Wasserbau und Schiffbau, Zentralwerkstatt Müller-Breslau-Straße 15 (Schlauseinsel)
BEL	Berggarten, Gerhard Ertl Center Marchstraße 6 und 8	EW	Eugene-Paul-Wigner-Gebäude Hardenbergstraße 36	KF	ehem. Kraft- und Fernheizwerk Fasanenstraße 1A	SG	Severin-Gelände Salzaufer 17–19, Dovesstraße 6	W	Wasserbau und Wasserwirtschaft Straße des 17. Juni 144 und 144A
BH-A/	Bergbau und Hüttenwesen, Altbau und Neubau	F	Flugtechnische Institute Marchstraße 12, 12A, 12B, 14	KT	Kerntechnik Marchstraße 18	SE-RH	Reuleux-Haus, Eisenbahnlehranlage Straße des 17. Juni 135	WF	Werkzeugmaschinen und Fertigungstechnik Fasanenstraße 90
BIB	BH-NErnst-Reuter-Platz 1 Universitätsbibliothek der TUB & UdK Fasanenstraße 88	FH	Fraunhoferstraße 38-36	KWT	Kraftwerkstechnik und Apparatebau Fasanenstraße 1	ST	Steinplatz 2 Einstieflufer 25	Z	Poststelle, Druckerei, Materialausgabe Straße des 17. Juni 135
		H	Hauptgebäude der TU Berlin Straße des 17. Juni 135	L	ehem. Lebensmittelchemie Müller-Breslau-Straße 10	TA	Technische Akustik Einstieflufer 31		
		M	Gebäude Hardenbergstraße 16–18	M	Gebäudeteile Mechanik Straße des 17. Juni 135	TAP	Technische Akustik Prüfhalle Einstieflufer 31		
		HBS							

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