

Study Guide

for the

Master's Program

Communications and Multimedia Engineering

Academic Year 2016/2017

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Preface

This document is written to support the students of Communications and Multimedia Engineering (CME) at the FAU in organizing their studies and to provide some insight into this program to prospective students and the generally interested public. As such, it describes the main characteristics of the program, its scope, and its goals. As reference information, it includes an English description of the curriculum and the key elements of the applicable examination regulations for CME students. The latter are based on the German-language program-specific examination regulation for the Master's Program Communications and Multimedia Engineering (CME) and the German-language general examination regulation of the Faculty of Engineering at the Friedrich-Alexander University Erlangen-Nürnberg (FAU). **Please note that the German versions of the [examination regulations](#) are the legally binding documents.** The study guide also includes relevant guidelines for using the services provided by the university and its associated institutions, e.g., the housing service of the Studentenwerk, an overview of need-to-know internet platforms and useful addresses. The authors hope that it is found useful and welcome feedback and suggestions for additions.

Erlangen, September 2016

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Content

CHAPTER 1	5
CME - THE MASTER PROGRAM	5
1.1 OVERVIEW	5
1.2 CHARACTERISTICS AND SCOPE OF CME	5
1.3 KEY REASONS FOR CHOOSING CME	5
1.4 THE CURRICULUM	6
1.5 GOALS OF THE PROGRAM	6
1.6 HISTORY	6
CHAPTER 2	7
INFORMATION FOR PROSPECTIVE	7
STUDENTS	7
2.1 PREREQUISITES	7
2.2 APPLICATION	7
2.3 ADMISSION AND ENROLLMENT TO THE PROGRAM	8
2.4 RE-REGISTRATION (RÜCKMELDEN)	8
2.5 STUDY RECORDS	9
2.6 INTERNATIONAL OFFICE	9
2.7 GERMAN LANGUAGE CRASH COURSE	9
2.8 SCHOLARSHIPS	9
2.9 STUDENT JOBS	9
CHAPTER 3	11
GENERAL PROGRAM STRUCTURE	11
3.1 OVERALL STRUCTURE OF THE PROGRAM	11
3.2 EUROPEAN CREDIT POINT SYSTEM ECTS	11
3.3 GRADING SYSTEM	11
3.4 MODULARITY OF LECTURES	12
3.5 STUDY PLAN	13
3.6 MODULE CATALOGUE	17
3.7 MASTER'S THESIS	19
3.8 RESEARCH INTERNSHIP	19
3.9 GERMAN LANGUAGE COURSES	19
3.10 REGISTRATION FOR EXAMINATIONS	19
3.11 REPETITION OF EXAMINATIONS	20
3.12 EXAMINATION DEADLINES	20

CHAPTER 4	21
STUDYING IN ERLANGEN	21
4.1 ERLANGEN AND ITS SURROUNDING AREA	21
4.2 RESEARCH AND INDUSTRY	21
4.3 SITE PLAN OF THE MAIN CAMPUS OF THE FACULTY OF ENGINEERING	22
4.4 HOUSING.....	22
CHAPTER 5	23
IMPORTANT INTERNET PLATFORMS AT FAU	23
5.1 IDM = IDENTITY MANAGEMENT	23
5.2 UNIVIS (UNIVERSITY INFORMATION SYSTEM).....	23
5.3 STUDON	23
5.4 MEINCAMPUS.....	23
5.5 OPACPLUS	23
CHAPTER 6	25
CONTACT PERSONS AND ADDRESSES	25

Chapter 1

CME - The Master's Program

1.1 Overview

The CME Master's study program is based on bachelor and diploma programs with focus on information and communication technology and leads the students to an M.Sc. degree which should allow them to work in cutting-edge research and development in the core areas of communications and multimedia technology and related interdisciplinary topics. The program structure complies with internationally recognized Master's programs and meets the requirements for subsequent doctoral studies. The four-semester curriculum starts in winter and includes a six-month thesis project. All courses are taught in English and do not require prior knowledge of the German language.

1.2 Characteristics and scope of CME

CME is designed for Bachelors from Electrical Engineering, Communication Engineering, Computer Science, Applied Mathematics or Physics and emphasizes the fundamental concepts of advanced communications and multimedia. The main contributors to the curriculum are the chairs for Multimedia Communications and Signal Processing, Information Transmission, and Mobile Communications, respectively. Based on a profound and broad working knowledge in these key areas, the students are also encouraged to pursue their personal interests in areas like audio, electronics, optical communication systems or medical image and video processing. Thereby, the curriculum paves the way to research and advanced development in world-class academic institutions and industry for audio, multimedia, and communications and many other areas where these qualifications are in high demand. At the same time the program stipulates intensive language courses in German to open the door to a career in German-speaking environments.

1.3 Key reasons for choosing CME

Students who strive for insight into the underlying principles of current communication and multimedia technologies will find a stimulating environment when entering CME and will be enabled to apply solid theory to achieve practically relevant solutions. The high-profile research-oriented faculty entertains strong links to local and international high-tech industry and helps the students to connect to big players in audio, medical systems, and mobile and optical communications. For local students, the international environment offers an easy way to interact with foreign students and to perfect their English language competences. At the same time, international students will find it easy to familiarize themselves with the local culture in Erlangen.

1.4 The curriculum

The curriculum is a well-balanced mixture of modules in the areas of signal processing, information theory, communications, and video and audio processing. Mandatory courses such as Digital Signal Processing, Information Theory, or Mobile Communications are complemented by technical and nontechnical electives, a seminar, lab courses, a research internship, and the Master's thesis. The predominant theme in the curriculum is to provide the students with a strong theoretical and methodical background as a toolset of permanent value for solving relevant practical, hitherto unsolved problems. The program is designed to be finished within 2 years (4 semesters) by full-time students or within 4 years (8 semesters) by part-time students. The part-time program is designed to meet the needs of students with off-campus employment which allows however for flexible working hours.

1.5 Goals of the program

The CME Master's program leads the students to cutting-edge research and development in the core areas of communications and multimedia technology and related interdisciplinary topics. After completion of the CME program, it is expected that the students will be qualified for challenging research and development tasks in these areas in industry. Top students should be qualified to pursue a Ph.D. degree after completion of the M.Sc. program in CME.

1.6 History

CME was established in 2011 to further emphasize the international character of the Faculty of Engineering ('Technische Fakultät'). As a study program, CME reflects the international orientation of the communications and multimedia technology research staff at the Faculty of Engineering of FAU. With numerous internationally acclaimed scholars (including three IEEE Fellows) in the teaching staff, CME was also conceived to closely cooperate with the International Audio Labs, a joint research and graduate teaching facility of the FAU and Fraunhofer, with an initial budget of 60 million Euro dedicated to research in audio and multimedia. Thus, a teaching and research environment was created that should attract excellent bachelor graduates from all over the world and offer them a world-class starting point for their career.

Chapter 2

Information for Prospective Students

2.1 Prerequisites

Prospective students should have a solid basis and working knowledge in Engineering Mathematics, Signals and Systems, Communications and Stochastic Signals. Prior knowledge of the German language is not necessary as all courses will be taught in English.

The CME program expects a background in:

- Engineering mathematics: linear algebra, complex analysis, linear differential equations, Fourier transform, Laplace transform, z-transform, probability and random variables
- Signals and Systems (textbook level, e.g., Oppenheim/Willsky, Discrete-time Signals and Systems)
- Communications (textbook level, e.g., Haykin, Communication Systems)
- Stochastic Signals (textbook level, e.g., Pillai/Papoulis: Probability, Random Variables, and Stochastic Processes)
- Software: C/C++, MATLAB

2.2 Application

The application procedure is organized in several steps:

Step 1 (Deadline: March 15/ May 15)¹

Applicants should send us via email the filled application sheet and the following documents as scanned copies:

- a Curriculum Vitae (CV)
- the secondary school's leaving certificate or university entrance certificate (certified English version)
- all university certificates (certified English version)
- the international transcript of the courses attended
- TOEFL score report (or other proof of English-language education)
- APS certificate (China)
- certificates for English or German language courses or tests, if any

¹ The first deadline is for students who have to apply for a visa abroad.

- references of two academic teachers that have known you well and are willing to provide recommendation letters on request (name, academic position, mail address, email address)

to the following email address: [cme\(at\)eei.uni-erlangen.de](mailto:cme(at)eei.uni-erlangen.de)

Selected applicants will be invited for a face-to-face or telephone interview. The interview takes approximately 30 minutes and serves to assess the background and the motivation for a successful completion of the CME program.

Step 2 (Deadline: July 15)

After the screening process you will be informed whether you have been selected for admission to the CME program. If so, you will be asked to hand in your formal application documents to the [Online Application Portal for Master's Degree Programmes](#) of Friedrich-Alexander University Erlangen-Nürnberg.

2.3 Admission and enrollment to the program

Students have to observe the instructions given on the online application portal and send all their documents in the required form to the Master's Office at the University of Erlangen-Nürnberg. Students who have not received their Bachelor Degree yet should submit their latest transcript of records and a certificate of their university with the date of their foreseeable graduation. The Master's Office will then carry out the formal application procedure.

Upon arrival in Germany, students have to enroll in person at the Student Record Office (Studentenkanzlei, Halbmondstrasse 6-8, Erlangen). For this, they need the following documents:

- original documents of secondary school's leaving certificate and Bachelor Degree
- signed enrollment form
- proof of health insurance
- passport
- passport photograph
- evidence of payment of student services contribution (107 € – paid by bank transfer)
- admission letter

2.4 Re-Registration (Rückmelden)

The re-registration serves as a confirmation for the enrollment to the next semester. The re-registration does not require appearing at the Student Record Office, but is effectuated by the bank transfer of the student services contribution (107 €). All students receive a remittance slip together with their semester documents.

Students have to observe the respective dates. Failure to observe the time-limit may result in expulsion! The payment is due 6 - 8 weeks before the semester starts. You find the list

with the corresponding deadlines at the website <https://www.fau.eu/study/current-students/semester-dates/>.

2.5 Study records

After enrollment, students receive a transcript book and a sheet of records. It is the responsibility of the students to fill in the name of the modules attended during the study. The sheet of records serves as a proof for the completion of the study program.

2.6 International Office

In September, the [International Office](#) of the Faculty of Engineering arranges a Welcome Meeting for all international students. For all those who have no or only little German language knowledge, it is advisable to come to Germany that early to be assisted by the International Office (IO) when handling all formalities like enrollment, opening of a bank account or contracting a health insurance. Furthermore there are leisure events organized by the IO, e.g., trips to Munich, Rothenburg, etc.

2.7 German language crash course

The Language Centre of the FAU offers a crash course in German language for international students from mid of September until the beginning of October. The received credits can be fully acknowledged. Normally, the courses are on student's own expense but CME offers them most probably as a scholarship. Students have to pay the course fees in advance and are reimbursed after passing the examination successfully. The deadline for the registration for the German language crash course is August 8. Students who are interested in taking this offer should register here:

http://www.sz.uni-erlangen.de/abteilungen/daf/kursangebot/aiferienkurs_english.html

Those who will not arrive in Germany in time and have already registered for the course will be reimbursed except for the foreign bank transfer fees.

2.8 Scholarships

The University Erlangen does not offer own scholarships. Each student may however apply for scholarship offered by various organizations (foundations, companies, political parties, religious groups, a.o.). The scholarships are not always awarded based on performance in previous studies alone. The German Academic Exchange Service (DAAD) offers an extensive [compilation of different possible funds](#).

Furthermore the FAU has also compiled a [list of foundations](#) offering a variety of scholarships (only available in German).

2.9 Student jobs

Students are allowed to work outside the university while being enrolled. As the CME curriculum is designed for full-time students, the extra workload for money-making should

be restricted. Student jobs are also offered by the chairs of the university. They usually allow for a convenient timing in compliance with courses and without extra commuting time. The bulletin boards and websites of the respective chairs should to be checked for this.

Non-EU citizens are only able to take up an employment if they have a work permit. Students are allowed to earn an annual amount of 7600 Euros tax-free. Deducted taxes can be reclaimed by means of an annual wage-tax adjustment at the tax office as long as they did not earn more than the annual tax-free amount. Non-EU citizens are allowed to work only 120 days or 240 half days (see <http://dejure.org/gesetze/AufenthG/16.html>). EU-students have unrestricted working times, but of course should keep their studies-work balance in mind. Further information can be found [here](#) (available only in German).

Chapter 3

General Program Structure

3.1 Overall structure of the program

The Master's study program is predominantly designed for international students and offered completely in English language. With a total duration of four semesters, it foresees three semesters of lectures that consist of mandatory courses, mandatory elective courses and elective courses. The mandatory courses also include three lab courses, a research internship, and a seminar. In order to allow international students an ideal integration into German-speaking environments, three semesters of mandatory German language training are included in the curriculum. The last semester is mainly dedicated to the preparation of the Master's thesis. Generally, admission to the Master's program requires at least an above-average Bachelor degree and is granted on a competitive basis.

3.2 European Credit Point System ECTS

According to the European Credit Transfer System (ECTS) each course is assigned a number of points, so-called ECTS-points, which represent the expected associated workload in full hours, where 1 ECTS credit point corresponds to 30 hours (60 min per hour) per semester. The ECTS system replaces the previously used 'Semesterwochenstunde' (SWS = 'weekly hours during the lecturing period', with one academic hour (SWS) corresponding to 45 minutes). The typical conversion rate in Electrical Engineering is 2.5 ECTS=2 SWS.

3.3 Grading system

The grading system is regulated in §18 of the General Examination Regulations of the Faculty of Engineering

1,0	excellent	an excellent achievement	passed
1,3			
1,7	above average	an achievement that meets the requirements distinctly above average	
2,0			
2,3			
2,7	average	an achievement that complies with the requirements	
3,0			
3,3			
3,7	adequate	an achievement that, despite of occurring shortcomings, still complies with the requirements	
4,0			
4,3	not adequate	an achievement that, because of significant shortcomings, does not meet the requirements	not passed
4,7			
5,0			

The final cumulative grade for the Master’s Examination is the arithmetic average over all graded modules weighted by the respective number of ECTS credit points and allows only one decimal place.

Cumulative Grade	Cumulative Grading
≤1,5	excellent
1,6 ... 2,5	above average
2,6 ... 3,5	average
3,6 ... 4,0	adequate

Whoever completes the Master’s Examination with a cumulative grade from of 1,2 or better obtains the distinction

„graduated with distinction“.

3.4 Modularity of lectures

The Master’s program comprises a set of modules. To each module, an ECTS value is assigned, which should describe the associated workload for an average student including attendance of lectures and preparation for examinations (1 ECTS point corresponds to 30 hours of 60 minutes). A module constitutes a consistent and temporally coherent study unit that is usually (but not necessarily) concluded with an examination. Examinations are “studienbegleitend”, which means that the written or oral examination takes place during the semester or during the following exam periods. A module usually consists of a lecture (Vorlesung) and a supplemental class or tutorial (Übung). Some modules might also contain a lab course (Praktikum). A lecture and the accompanying supplemental course or a tutorial belong together and cannot be credited as separate classes. Typically, the lecture is given by a faculty member, while the supplemental course or tutorial is taught by a teaching assistant. Students are strongly advised to actively participate in the supplements. The supplements are often accompanied by assignments. For each module, there are one or more faculty members that are responsible for that module.

The module content and examination modality, i.e., whether the examination is performed in written or oral form and the duration of the examination, are specified in detail in the module description (Modulbeschreibung). If less than 20 participants are registered for a written exam, it can be performed orally. A module examination (Modulprüfung) might consist of one or more partial examinations (Teilprüfungen). A partial examination can lead to either a pass/fail decision (unbenoteter Schein or Studienleistung) or can be graded (benoteter Schein or Prüfungsleistung). The final grade of the module (Modulnote) is computed as a weighted sum of the grades obtained in the partial examinations. Finally, there are seminars (Seminare), which focus on different research topics each semester and where students contribute own presentation and engage in scientific discussions. Generally, the responsible faculty member or instructor for each module announces the requirements for successful completion of the module, and it is each student’s responsibility to inform herself/himself about these requirements.

3.5 Study Plan

Study Plan for full-time students starting in WS 2016/17*

No.	Module Group	Credits	1.Sem	2.Sem	3.Sem	4.Sem	Type of Examination
	Name of Module		ECTS	ECTS	ECTS	ECTS	
	Mandatory Modules						
M1	Digital Communications	5	5				90 Min (written)
M2	Information Theory and Coding	5	5				90 Min (written)
M3	Digital Signal Processing	5	5				90 Min (written)
M4	Mobile Communications	5		5			90 Min (written)
M5	Statistical Signal Processing	5	5				90 Min (written)
M6	Image and Video Compression	5		5			90 Min (written)
M7	Speech and Audio Signal Processing	5		5			90 Min (written)
	Elective Mandatory Modules						
M8	Lab courses	7.5	2.5	2.5	2.5		successful participation
M9	Research Internship	10			10		see guidelines of the module
M10	Seminar	2.5			2.5		presentation
M11	Technical Courses	5			5		see guidelines of the module
	Non-Technical Elective Mandatory Modules						
M12	Languages, soft skills	15	5	5	5		see guidelines of the module
	Elective Modules						
M13	Technical Electives	15	2.5	7.5	5		see guidelines of the module
M14	Thesis	30				30	
		120	30	30	30	30	

Study Plan for part-time students starting in WS 2016/17*

No.	Module Group	Credits	1. Sem	2. Sem	3. Sem	4. Sem	5. Sem	6. Sem	7. Sem	8. Sem	Type of Examination
	Name of Module		ECTS	ECTS	ECTS	ECTS	ECTS	ECTS	ECTS	ECTS	
	Mandatory Modules										
M1	Digital Communications	5			5						90 Min (written)
M2	Information Theory and Coding	5	5								90 Min (written)
M3	Digital Signal Processing	5	5								90 Min (written)
M4	Mobile Communications	5				5					90 Min (written)
M5	Statistical Signal Processing	5			5						90 Min (written)
M6	Image and Video Compression	5		5							90 Min (written)
M7	Speech and Audio Signal Processing	5		5							90 Min (written)
	Elective Mandatory Modules										
M8	Lab courses	7.5				2.5	2.5	2.5			successful participation
M9	Research Internship	10						10			see guidelines of the module
M10	Seminar	2.5						2.5			presentation
M11	Technical Courses	5					5				see guidelines of the module
	Non-Technical Elective Mandatory Modules										
M12	Languages, soft skills	15	5	5	5						see guidelines of the module
	Elective Modules										
M13	Technical Electives	15				7.5	7.5				see guidelines of the module
M14	Thesis	30							15	15	
		120	15	15	15	15	15	15	15	15	

*The courses of the part-time study program take place at the same time as the courses of the full-time study program, i.e., there are no special night classes or weekend classes.

Study Plan for full-time students starting in WS 2015/16*

No.	Module Group	Credits	1.Sem	2.Sem	3.Sem	4.Sem	Type of Examination
	Name of Module		ECTS	ECTS	ECTS	ECTS	
	Mandatory Modules						
M1	Digital Communications	5	5				90 Min (written)
M2	Information Theory	5	5				90 Min (written)
M3	Digital Signal Processing	5	5				90 Min (written)
M4	Fundamentals of Mobile Communications	5	5				90 Min (written)
M5	Statistical Signal Processing	5		5			90 Min (written)
M6	Image and Video Compression	5		5			90 Min (written)
M7	Speech and Audio Signal Processing	5		5			90 Min (written)
	Elective Mandatory Modules						
M8	Lab courses	7.5	2.5	2.5	2.5		successful participation
M9	Research Internship	10			10		see guidelines of the module
M10	Seminar	2.5			2.5		presentation
M11	Technical Courses	5			5		see guidelines of the module
	Non-Technical Elective Mandatory Modules						
M12	Languages, soft skills	15	5	5	5		see guidelines of the module
	Elective Modules						
M13	Technical Electives	15	2.5	7.5	5		see guidelines of the module
M14	Thesis	30				30	
		120	30	30	30	30	

Study Plan for part-time students starting in WS 2015/16*

No.	Module Group	Credits	1. Sem	2. Sem	3. Sem	4. Sem	5. Sem	6. Sem	7. Sem	8. Sem	Type of Examination
	Name of Module		ECTS	ECTS	ECTS	ECTS	ECTS	ECTS	ECTS	ECTS	
	Mandatory Modules										
M1	Digital Communications	5			5						90 Min (written)
M2	Information Theory	5	5								90 Min (written)
M3	Digital Signal Processing	5	5								90 Min (written)
M4	Fundamentals of Mobile Communications	5				5					90 Min (written)
M5	Statistical Signal Processing	5			5						90 Min (written)
M6	Image and Video Compression	5		5							90 Min (written)
M7	Speech and Audio Signal Processing	5		5							90 Min (written)
	Elective Mandatory Modules										
M8	Lab courses	7.5				2.5	2.5	2.5			successful participation
M9	Research Internship	10						10			see guidelines of the module
M10	Seminar	2.5						2.5			presentation
M11	Technical Courses	5					5				see guidelines of the module
	Non-Technical Elective Mandatory Modules										
M12	Languages, soft skills	15	5	5	5						see guidelines of the module
	Elective Modules										
M13	Technical Electives	15				7.5	7.5				see guidelines of the module
M14	Thesis	30							15	15	
		120	15	15	15	15	15	15	15	15	

*The courses of the part-time study program take place at the same time as the courses of the full-time study program, i.e., there are no special night classes or weekend classes.

3.6 Module Catalogue

MANDATORY COURSES

Digital Communications
Information Theory and Coding
Digital Signal Processing
Mobile Communications
Statistical Signal Processing
Image and Video Compression
Speech and Audio Signal Processing

MANDATORY ELECTIVES

Advanced Topics in Information Theory
Channel Coding
Visual Computing for Communication
Transmission and Detection for Advanced Mobile Communications
MIMO Communication Systems
Radio Resource Allocation in Advanced Cellular Networks
Equalization and Adaptive Systems for Digital Communications
Architectures of Digital Signal Processing
Transforms in Signal Processing
Advanced Optical Communication Systems
RF and Digital Architecture of Radio Systems
Linear and Nonlinear Fiber Optics
Multidimensional Signals and Systems
Advanced Topics in Perceptual Audio Coding
Auditory Models
Speech Enhancement
Optical Transmission Systems
Systems and Circuits for Transmission Technologies
Mathematical Optimization in Communications and Signal Processing
Game Theory with Application to Information Engineering
Machine Learning in Signal Processing
Pattern Analysis
Pattern Recognition
Signal Analysis
Music Processing - Analysis
Music Processing - Synthesis

ELECTIVES

Convex Optimization in Communications and Signal Processing
Computer Graphics
Speech Coding
Distributed MIMO and Relaying Communications
Diagnostic Medical Image Processing
Communications Systems Design
Advanced Communication Networks
Molecular Communications

Sensor Networks
Smart Grid Communications
Advanced Game Theory
Pattern Recognition (5 ECTS or 7.5 ECTS)
Pattern Analysis (5 ECTS or 7.5 ECTS)
... and all Mandatory Electives

LAB COURSES

Digital Signal Processing Laboratory
Digital Communications Laboratory
Mobile Communications Laboratory
Multimedia Communications Laboratory
Audio Processing Laboratory

3.7 Master's thesis

The Master's thesis should be completed during the fourth semester after having successfully passed examinations with an accumulated weight of at least 80 ECTS earned from all modules. It should provide a stimulating educational experience for the student emphasizing creativity, self-organized scientific work and studying, a training in research methodology and scholarly writing and presentation. The thesis project lasts exactly six months starting from the registration at the examination office by the supervisor and with a workload of 30 ECTS. In the end, the thesis is handed in to the examination office as a written document with typically 50 – 100 pages. Suggested topics are announced at the bulletin boards of the respective chairs or can be arranged with the supervisor directly.

Students have to complete at least 80 ECTS before they are allowed to start their Master's thesis.

3.8 Research Internship

The research internship (Forschungspraktikum) should ideally be completed in the third semester after having passed all mandatory courses. The aim of the research internship is to provide some hands-on experience in research. It is usually conducted at a university chair but can also be conducted at a research-oriented company. The research internship has a workload of 10 ECTS (300 hours). For completion, a presentation of about 20 min has to be given and a report of 10 to 15 pages has to be written.

A research internship, which should be conducted at a company, needs to be supervised by a faculty of the EEI Department, which has to agree to supervise the internship before it can be started. A description of the content and goals of the intended research internship needs to be provided by the company such that the supervising professor can decide whether it meets the scientific and technical requirements and whether it falls into his or her field of expertise.

3.9 German language courses

The curriculum includes German language courses with an accumulated weight of 15 ECTS. Students can begin to study German before the lecture period starts if they attend a German language crash course (see Section 2.7). The range of German classes is divided into three stages: elementary, mid-level and upper-level. To complete one level, a workload of 10 ECTS is mandatory. German courses are held in Erlangen as well as in Nürnberg. To investigate the prior German language knowledge of each student, placement tests must be taken in the first week of the lecture period. Students who have no prior knowledge are supposed to visit the elementary level A1.1.

3.10 Registration for examinations

Students have to register themselves for examinations via the internet platform [meinCampus](#). The CME coordinator holds a meeting for the freshmen to familiarize them with the system. Students are able to withdraw from their registration without giving any reason by using meinCampus. If they have failed an examination, they will be automatically registered for the next examination that they then have to complete. The re-examination can be cancelled only because of evidenced health reasons. Therefore, students have to consider the instructions on the next page.

3.11 Repetition of examinations

A student who failed an examination can repeat this examination twice. The re-examination has to be taken at the next available date, normally within six months after the result of the first exam has been communicated. The student is automatically registered for the next available date. If the student misses this date, he or she fails the examination.

3.12 Examination deadlines

Students are expected to pass the examinations in due time so that they obtain the required 120 ECTS credits within the intended study period of four semesters. The required ECTS credits have to be obtained within five semesters at the latest.

INFORMATION SHEET

Examination participants, who have to discontinue the examination due to health reasons, should observe the following procedure:

1. They are asked to go to one of the university hospitals (depending on the kind of their illness) immediately. Addresses are listed in Chapter 6.
2. They should submit this leaflet at the university hospital without further notice.
3. In the medical certificate of the university hospital must be mentioned if there is a disability to do the exam and whether this occurred before or during the exam.
4. Please ask for acceptance of the exam cancellation. The medical certificate can be handed later.
5. Afterwards the medical certificate has to be forwarded to the Examination Office.

Note of the exam supervisor

Name of the exam participant: _____

Date of the exam: _____

Start of the exam: _____

Discontinuing of the exam: _____

Name and signature of the examiner or supervisor

Chapter 4

Studying in Erlangen

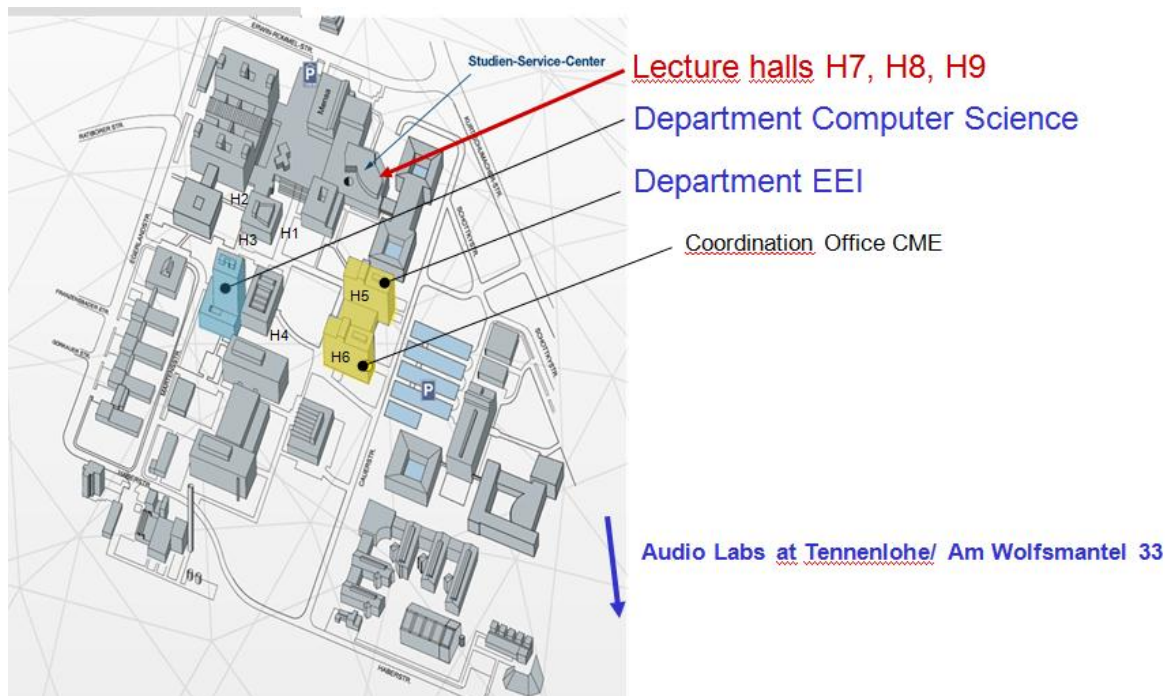
4.1 Erlangen and its surrounding area

The University of Erlangen-Nürnberg was founded in 1743 and currently has around 39,600 students. The Faculty of Engineering Sciences (Technische Fakultät) with about 10,500 students is located in Erlangen, a city with a historic baroque centre which is located amongst splendid landscape close to the rocky hills and lovely forests of the Fränkische Schweiz. The cities of Nuremberg (a traditional center of arts and commerce since medieval times) and Bamberg (an UNESCO world heritage town) lie about 20 km to the south and 40 km to the north, respectively. Bayreuth is about 80 km away, while Munich, Frankfurt and Stuttgart, the other large cities of southern Germany, can all be reached within about 2 hours journey by train or car. One of Erlangen's best known and most loved attractions is the "Bergkirchweih", a beer festival in spring, which attracts around 1 million visitors from near and far.

4.2 Research and industry

In the wider world, Erlangen is also renowned both as home to the second largest university in Bavaria and as one of the three headquarters of Siemens AG, which both contribute substantially to the high living standard in and around the city. With its broad range of additional privately and publicly funded research facilities and many start-up high-tech companies, Erlangen and its surroundings have developed into an important European R&D centre in several future-oriented areas of engineering, including core CME areas, such as medical systems, microelectronics, audio (Fraunhofer IIS, Dolby), multimedia and communications (e.g., Intel, Alcatel-Lucent).

4.3 Site plan of the main campus of the Faculty of Engineering



4.4 Housing

Currently there is a limited contingent of dormitory places for CME-students. All students interested in a dormitory place have to apply until May 29 at accommodation@fau.de by using the following [form](#). Admitted students are nominated for dormitory places administered by the student service agency "Studentenwerk" by the coordinator of the program. Upon receipt of an offer by the Studentenwerk, the students have to accept the dormitory place within two weeks by faxing the signed contract and paying the deposit and the rent for the first two months. Dormitory places of the Studentenwerk are relatively inexpensive but students are allowed to live in such a dormitory only for one year at most. Beyond the range of student dormitories, the Studentenwerk offers also a private housing referral service: <http://www.studentenwerk.uni-erlangen.de/wohnen/en/privatzimmervermittlung.shtml>

Chapter 5

Important Internet Platforms at FAU

5.1 IdM = Identity Management

IdM stands for Identity Management – the so called user administration of FAU. Students have to create their “Digital Identity” by following this link <https://www.idm.fau.de/go/?lang=en> and entering their log-in data (included in the information letter of the student record office that students receive after enrollment). After the activation of the user ID, the very important FAU-Card will be sent to them. The FAU-Card can be used for the canteen, the library, or as a printing card. By activating her/his ID each student will also get her/his own email address (StudMail) that is to manage on <https://studmail.fau.de>. For problem solving, there is a special hotline: 09131/8520100.

5.2 UnivIS (University Information System)

Important information on the modules of the curriculum is published in the web system UnivIS: <http://univis.fau.de>.

This includes dates, times and places for all current and past modules. UnivIS allows students to generate their timetables. UnivIS also includes useful information such as addresses, phone numbers, and email addresses of the faculty in charge of the lectures or exercise courses. Students need to refer to UnivIS often; therefore it is important that they familiarize themselves with the system as soon as possible.

5.3 StudOn

StudOn is the internet platform where students can find lecture documents like lecture notes or exercises. It provides internet forums for students and working teams and allows the exchange of information between students and lecturers. Here students may be able to post their questions on bulletin boards. Some lecturers provide also e-learning courses that can be downloaded from StudOn. Students can find CME at the so-called “repository”.

5.4 MeinCampus

This online platform serves as the On-line administration of the student record office and the examination office. Students have to administrate their study data there and to register for examinations (if one has failed in an examination one will be automatically re-registered). The registration period starts normally in the mid of November/May and lasts about two weeks. On this platform students can review their current grades and view their transcript of records. Beyond that meinCampus enables the printing of enrollment certifications and the remittance form for every semester.

5.5 OPACplus

OPACplus is the Library Catalog of FAU (see: <http://www.ub.fau.de/literatursuche/index-en.shtml>). It contains media stock of the main library and their branches. Students obtain

access to different research magazines online. OPACplus also offers inter-library borrowing from libraries all over Germany. Foreign students are able to book guided library tours in English language (email address for bookings: tnzb.info@bib.uni-erlangen.de)

Chapter 6

Contact Persons and Addresses

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Erwin-Rommel-Strasse 60
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Study Service Centre

Faculty of Engineering
Erwin-Rommel-Strasse 60
SSC (Office hours: Mo/Tue/Thu: 9am - 2pm, Fri: 9am – 1pm)
Phone: +49 (0)9131 8527850
D-91058 Erlangen

Student's Record Office

Halbmondstr. 6-8
Phone: +49 (0)9131 8524029
D-91054 Erlangen

Examination Office

Heike Barthelmann
R. U1.250 (Opening hours: Monday-Friday 8am – 12am)
Halbmondstr. 6
Phone: +49 (0)9131 8526707
D-91054 Erlangen

Central Office for International Affairs

Schlossplatz 3
Phone: +49 (0)9131 8524800
D-91054 Erlangen

Language Centre

Department German as a foreign language
Bismarckstr. 10
Phone: +49 (0)9131 8522196
D-91054 Erlangen

Tax Office

Finanzamt Erlangen
Schubertstr. 10
D-91052 Erlangen
Phone: +49 (0)9131 121-0
<http://www.finanzamt.bayern.de/Erlangen/>

Residence Office

Ausländerbehörde Stadt Erlangen
Rathaus – 2nd Floor
Rathausplatz 1
91052 Erlangen
Phone: +49 (0)9131 862879
Names starting with A to L: Phone: +49 (0) 9131 86 2879, Room 215
Names starting with M bis Z: Phone: +49 (0) 9131 86 2089, Room 214

UNIVERSITY HOSPITAL DEPARTMENTS AND EMERGENCY PHONE NUMBERS

<http://www.uk-erlangen.de/en/emergencies/>

<http://www.uk-erlangen.de/en/about-us/all-institutions/>

Life-threatening emergencies:	
Rescue Coordination Centre (in all Bavaria)	19222 (or 112)
Poison Control Centre	0911 - 398 2451 or 0911 - 398 2665
Accident and emergency units:	
Accident and emergency unit for surgery Krankenhausstr. 12	09131-85 33260
Accident and emergency unit for internal medicine (including Chest Pain Unit and Department of Dermatology) Ulmenweg 18	09131- 85 35420
Accident and emergency unit concerning head injuries (including Stroke Unit and mental emergencies) Schwabachanlage 6	09131-85 34338
Important addresses and numbers:	
Medical On-Duty Service	116 117
University Hospital Departments:	
Academic Heart Centre Erlangen Ulmenweg 18	09131-8544379
Department of Dentistry Glückstr. 11	09131-8534201
Department of Dermatology Ulmenweg 18	09131-85 35000 (Reception) 09131-85 33842 (Appointments)
Department of Gynecology Universitätsstr. 21-23	09131-85 33553 or 09131- 85 33554
Department of Medicine 1 Gastroenterology, Pneumology and Endocrinology Ulmenweg 18	09131-85 35420 (Emergency) 09131-85 35270 (Ambulance)

Department of Medicine 2 Cardiology and Angiology Ulmenweg 18	09131-85 35420 (Emergency) 09131-85 35301
Department of Medicine 3 Rheumatology and Immunology Ulmenweg 18	09131-85 34742
Department of Medicine 4 Nephrology and Hypertension Ulmenweg 18	09131-85 32566 (Ambulance)
Department of Medicine 5 Hematology and Oncology Ulmenweg 18	09131-85 36241 (Ambulance)
Department of Neurology Department of Neuroradiology Department of Neurosurgery Department of Psychiatry and Psychotherapy Department of Psychosomatic Medicine and Psychotherapy Schwabachanlage 6	09131- 85 33001 or 09131- 85 33002 (Reception) 09131- 85 34549 (Appointments)
Department of Nuclear Medicine Ulmenweg 18	09131-85 33422 (Appointments)
Department of Oral and Cranio-Maxillofacial Surgery Department of Orthodontics Glückstr. 11	09131-85 34201 (Reception)
Department of Oto-Rhino-Laryngology- Head and Neck Surgery Waldstr. 1	09131-85 33156 (Reception) 09131-85 33803 (Ambulance)
Department of Pediatrics and Adolescent Medicine Loschgestr. 15	09131-85 33118 or 09131-85 33119
Department of Plastic and Hand Surgery Department of Surgery Krankenhausstr. 12	09131-85 33260 (Emergency) 09131-85 33994 (Appointments)
Department of Urology Krankenhausstraße 12	09131-85 33683 (Appointments)
Department of Urology at Waldkrankenhaus Rathsberger Str. 57	09131-822 0 (Emergency)
Epilepsy Centre Schwabachanlage 6	09131- 85 33001or 09131- 85 33002 (Reception) 09131- 85 39116

Ophtalmology Schwabachanalage 6	09131- 85 33001or 09131- 85 33002 (Reception) 09131- 85 34464 (Appointments)
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