

Information Technology (IT) Master of Engineering

Welcome to Frankfurt University of Applied Sciences

Information Technology (viersemestrig) (M.Eng.)						FRANKFURT UNIVERSITY OF APPLIED SCIENCES
						ECTS Punkte (CP)
Semester 4	13 Master Thesis and Colloquium 30 CP					
Semester 3	7 Machine Learning 5 CP	8 Mobile Computing 5 CP	9 Field Theory for Optical and Microwave Communication Systems 5 CP	10 Autonomous Intelligent Systems 5 CP	11 Optional Technical Subject 5 CP	12 Project 5 CP
Semester 2	1 Vector Analysis 5 CP	2 Stochastic Signals and Systems 5 CP	3 Digital Baseband Transmission and Modulation Methods 5 CP	4 Cloud Com 5 CP		
Semester 1	A Methods, Systems and Networks for Digital Communication 5 CP	B Circuit Design for Communication Systems 5 CP	C Software Engineering 5 CP	D Image Proces Identificat Dynamic Sy 5 CP		

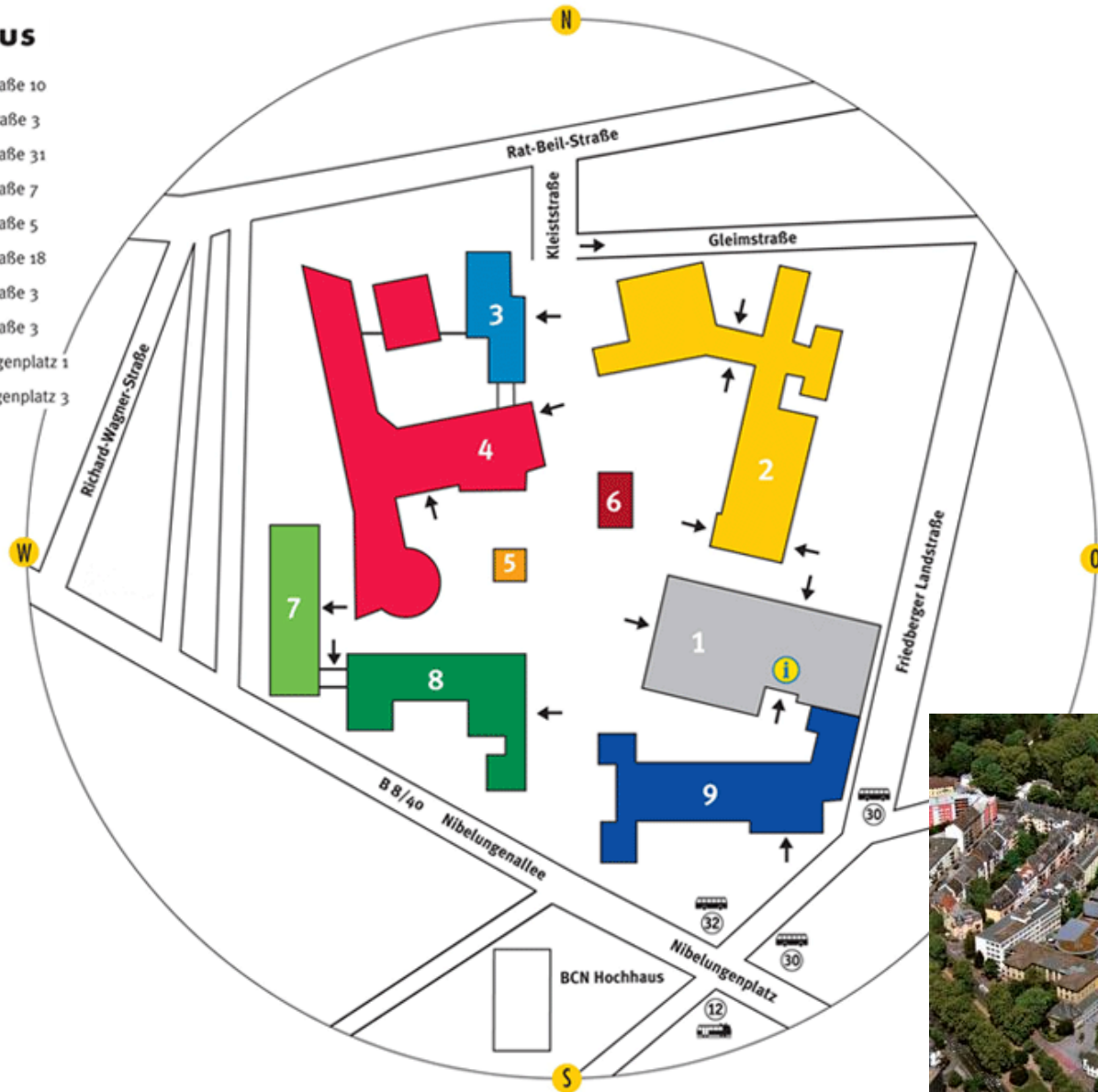


Fachbereich 2 Informatik und Ingenieurwissenschaften

Map of FRA-UAS

Campus

- 1 Kleiststraße 10
- 2 Gleimstraße 3
- 3 Kleiststraße 31
- 4 Kleiststraße 7
- 5 Kleiststraße 5
- 6 Kleiststraße 18
- 7 Kleiststraße 3
- 8 Kleiststraße 3
- 9 Nibelungenplatz 1
- BCN Nibelungenplatz 3



Why Master's studies, why Master's degree?

- Fun on studying
- Larger methodological skills
- Good career possibilities worldwide
- Scientific work, research and development (R&D)
- Sometimes subsequently PhD, scientific career (Master!)
- Higher salary, at least in the first job
- Management position
- ...

How?

- Study – study – study



Admission Requirements


- Bachelor degree in electrical and communication technology, electrical and computer engineering, information systems engineering or comparable Bachelor degree
- Average mark $\leq 2,5$
- Good skills in
 - electrical engineering
 - electronics
 - communication technology
 - software
 - signal processing and control engineering
- Good English language skills



Master IT-Studies in Fb2 of FRA-UAS

- 4 semesters
- In 1st and 2nd semester especially lectures and laboratories
 - Mathematical subjects
 - Hardware and high frequency technology
 - Communication technology
 - Software
 - Cloud Computing and Computational Intelligence
- In 3rd and 4th semester focus on projects and Master thesis (5 month)
- All lectures/courses in English
- Students very international
- About 40 registered students per year
- Degree: Master of Engineering



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Semester 2	1 Vector Analysis 5 CP	2 Stochastic Signals and Systems 5 CP	3 Digital Baseband Transmission and Modulation Methods 5 CP	4 Cloud Computing 5 CP	5 Digital Switching and Routing 5 CP	6 Computational Intelligence 5 CP	30
Semester 1	A Methods, Systems and Networks for Digital Communication 5 CP	B Circuit Design for Communication Systems 5 CP	C Software Engineering 5 CP	D Image Processing and Identification of Dynamic Systems 5 CP	E IT-Security 5 CP	F Cultural Diversity and Business Ethics 5 CP	30

- 30 ECTS per semester
- 1st semester: 25 SWS
- 2nd semester: 27 SWS
- 3rd semester: 16 SWS
- Full time studies

→ Possible area of application:
Smart City



Curriculum 1st Semester

- Methods, Systems and Networks for Digital Communication 4 h
- Circuit Design for Communication Systems 4 h
- Software Engineering
 - Lectures 2 h
 - Project 2 h
- Image processing and Identification of Dynamic Systems 5 h
- IT Security 4 h
- Cultural Diversity and Business Ethics 4 h
- Total sum 25 h



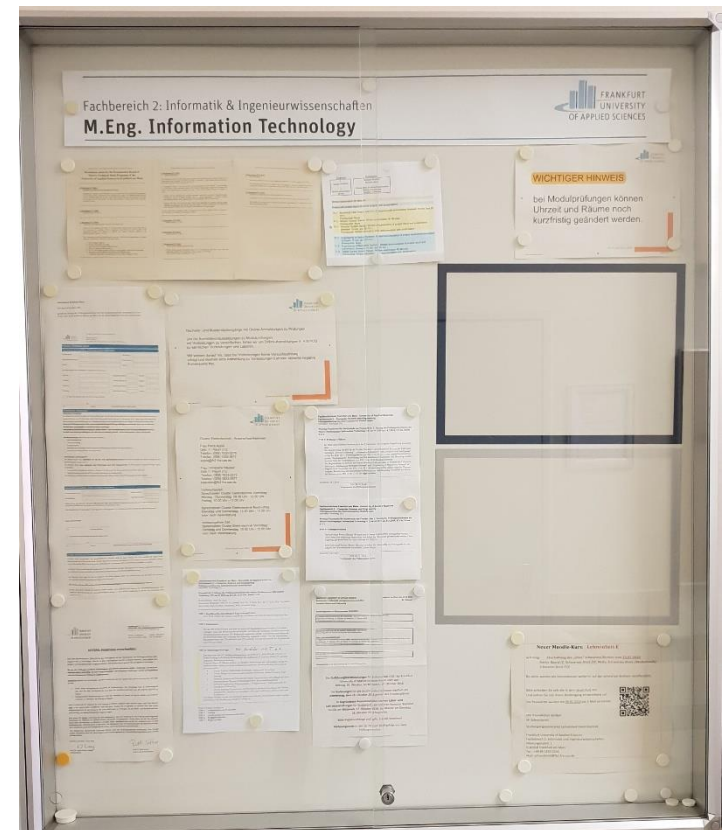
Lectures, Timetable, Postings

- Monday until Friday, Saturday is also possible
- Duration: 2 x 45 min = 90 min (one period/block)
- In principle there are 3 periods in the morning and 4 periods in the afternoon
- Please look at the timetable: postings 1st floor – building 8, beside room 106
- All lectures are in English



Postings acc. to Master IT Course

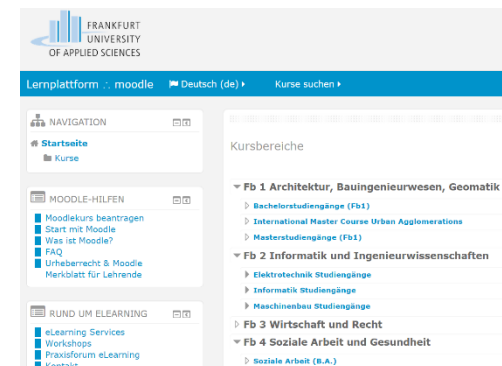
- Please look: postings 1st floor – building 8, corridor



Organisation and Administration

1

- Start of lectures: Wednesday, 16th October 2019
- End of lectures: Friday, 14th February 2020
- Examination period: 17th – 28th February 2020
- Postings (building 8, 1st floor, corridor): timetable, reports on current affairs, information acc. to examinations, decisions of examination board
- E-Learning platform Moodle
 - <https://www.frankfurt-university.de/de/hochschule/einrichtungen-und-services/e-learning/e-learning-tools/lernplattform-moodle/>
 - <https://moodle.frankfurt-university.de>
 - <https://moodle.frankfurt-university.de/course/index.php?categoryid=18>
registration necessary
- Office of Department Electrical Engineering
 - Mrs. Z. Demirezen, demirezen@fb2.fra-uas.de and Mrs. Y. Kilb, kilb@fb2.fra-uas.de
 - building 8, 1st floor, room 111
 - Monday – Friday, 8.30 – 12 am



Organisation and Administration

2

- Examination office
 - Applications and requests concerning examinations
 - Mrs. P. Appel, appel@fb2.fra-uas.de, Mrs. C. Häusler, haeusler@fb2.fra-uas.de
 - Building 1, 2nd floor, room 212
 - Monday – Thursday, 9.30 – 12 am, Friday, 10-11 am, Tuesday and Thursday, 1.30-3.30 pm
 - <https://www.frankfurt-university.de/de/hochschule/fachbereich-2-informatik-und-ingenieurwissenschaften/einrichtungen-services/pruefungsamt-am-fb-2/>
- Programme director: Prof. Dr. S. Kuhn, svenkuhn@fb2.fra-uas.de
- Chairman of examination board: Prof. Dr. U. Trick, trick@e-technik.org
- Professors supervising the courses

Cluster Elektrotechnik

Bachelor-Studiengänge:

- Elektrotechnik und Informationstechnik (EIT - auslaufend 28.02.2017)
- Elektrotechnik und Kommunikationstechnik (EKT)
- Energieeffizienz und Erneuerbare Energien (EEE - dual)
- Electrical Engineering and Information Technology (EEIT - VGU)
- Informationssystemtechnik (IST)
- Ingenieur-Informatik (II - auslaufend 28.02.2017)
- Mechatronik/Mikrosystemtechnik (MM - auslaufend 31.08.2016)
- Mechatronik (Mech)

Master-Studiengänge:

- Information Technology (IT)

Important information sources

- See “Organisation and Administration”
- Website Master IT: <https://www.frankfurt-university.de/de/studium/master-studiengange/information-technology-meng/fuer-studieninteressierte/>
- Documents for “Examination Regulations”
 - <https://www.frankfurt-university.de/de/studium/master-studiengange/information-technology-meng/fuer-studieninteressierte/>
 - Documents “Prüfungsordnung” (examination regulations) and “Modulhandbuch (module handbook)
- Postings
- FRA-UAS web pages
- Moodle web pages
- Web pages of professors, e.g. www.e-technik.org
- Consultation hours of professors

Examinations

- See “Organisation and Administration”
- See document “Examination Regulations”
- See document “Module Handbook/Descriptions”
- Kinds of exams: written, oral, project report, presentation, seminar
- Information about exams via postings
- Prerequisites
 - E.g. successful participation in a laboratory
 - Online registration via HIS (Hochschulinformationssystem) – deadline!
 - <https://his-www.dv.fh-frankfurt.de/qisserver/rds?state=user&type=0>
Check your admission!
- Failure to appear → not passed
- In case of illness a medical certificate is needed
- Maximum 3 attempts, new: 1 x 4th attempt

Questions?

