


Information Technology (IT) Master of Engineering

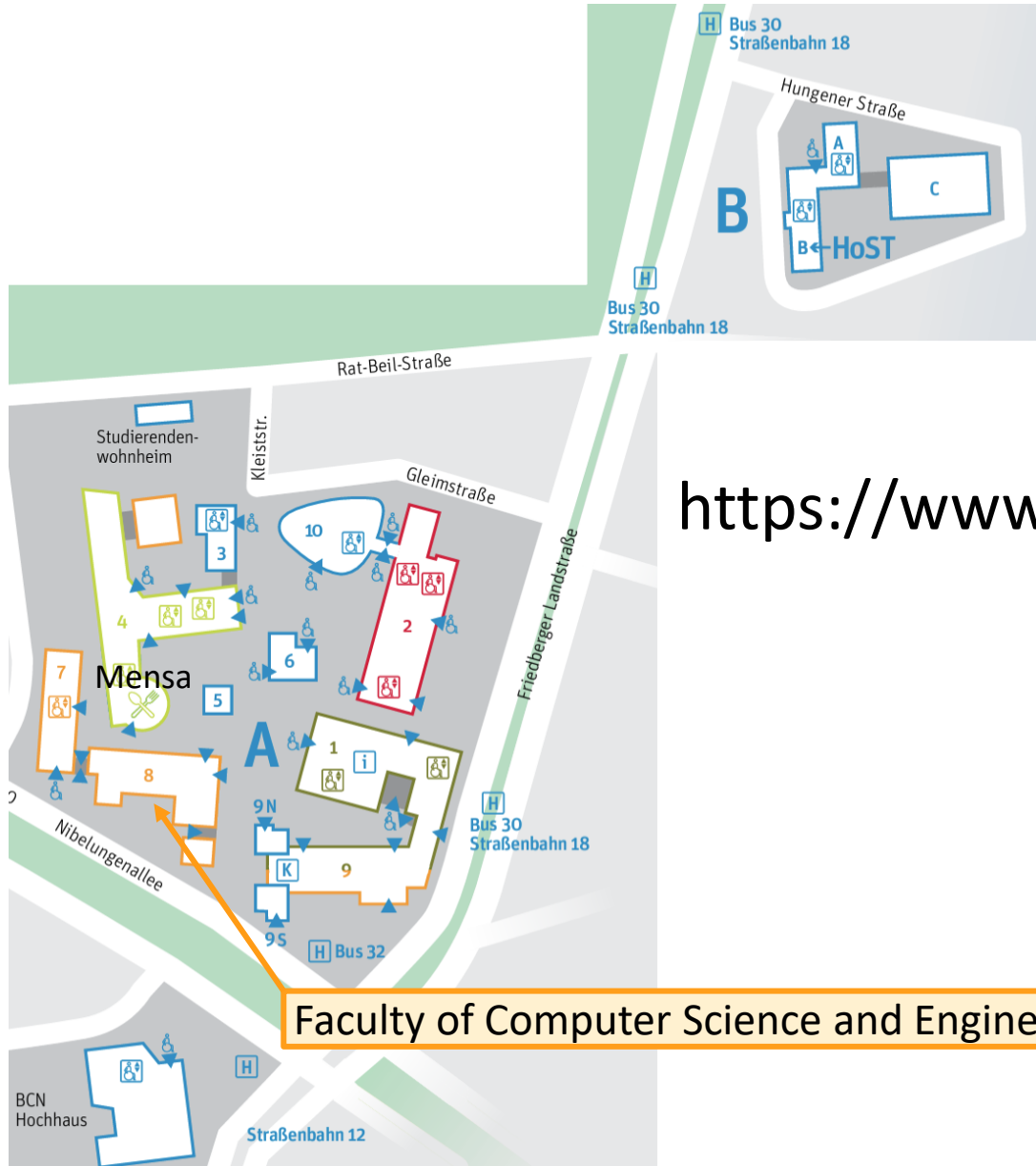
Welcome to Frankfurt University of Applied Sciences

Information Technology (viersemestrig) (M.Eng.)						
					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



<https://www.frankfurt-university.de/>

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 Engineering and Information Technology** with a concentration in Information and Communication Technology or a comparable field
- Average mark ≤ 2.0
- Good skills in
 - Mathematics
 - Electrical Engineering
 - Electronics
 - Communication Technology
 - Software
 - Signal Processing and Control Engineering
- Good English language skills

Master IT-Studies in Fb2 of FRA-UAS

Fb2 – Fachbereich 2 (engl. Faculty)

- 4 semesters
- In 1st and 2nd semester especially lectures and laboratories
 - Mathematical subjects, e.g. Vector Analysis, Stochastic Signals and Systems
 - Hardware and High Frequency Technology
 - Communication Technology
 - Software
 - Cloud Computing and Computational Intelligence, e.g. artificial neural networks
- In 3rd and 4th semester focus on projects and Master thesis (5 month)
- All lectures/courses in English
- Very international students
- About 65+ registered students per year
- Degree: Master of Engineering



4. Semester	30 ECTS	Master Thesis and Colloquium 13					
3. Semester	30 ECTS	7 Machine Learning	8 Mobile Computing	9 Field Theory for Optical and Microwave Communication Systems	10 Autonomous Intelligent Systems	11 Optional Technical Subject	12 Project
2. Semester	30 ECTS	1 Vector Analysis	2 Stochastic Signals and Systems	3 Digital Baseband Transmission and Modulation Methods	4 Cloud Computing	5 Digital Switching and Routing	6 Computational Intelligence
1. Semester	30 ECTS	A Methods, Systems and Networks for Digital Communication	B Circuit Design for Communication Systems	C Software Engineering	D Image Processing and Identification of Dynamic Systems	E IT-Security	F Cultural Diversity and Business Ethics

- 1st semester: 25 SWS (semester hours per week)
- 2nd semester: 27 SWS
- 3rd semester: 16 SWS
- Full time studies

Curriculum 1st Semester

Module	Examination Type	Semester Hours/Week	Abbr.
Methods, Systems and Networks for Digital Communication	Written Examination 90 Minutes	4 SWS (Lectures)	MDC
Circuit Design for Communication Systems	Written Examination 120 Minutes	4 SWS (Lectures)	CDCS
Software Engineering	Written Project Report with Presentation	2 SWS (Lectures) 2 SWS (Project)	SE
Image Processing and Identification of Dynamic Systems	Written Examination 90 Minutes	3 SWS (Lectures) 2 SWS (Lectures)	IP IDS
IT-Security	Written Examination 90 Minutes	4 SWS (Lectures & Exercises)	ITS
Cultural Diversity and Business Ethics	Written Paper with Presentation	2 SWS (Seminar) 2 SWS (Seminar)	BCD BBE
Total Sum		25 SWS	

(1 SWS = 45 minutes)

Lectures, Timetable

- 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:

<https://campuas.frankfurt-university.de/mod/resource/view.php?id=16815>

Lectures, Timetable

WiSe 23/24			Master Informa
			1. Sem.
Montag	1	08:15 09:45	
	2	10:00 11:30	MDC-V <i>Trick</i> 8-14
	3	11:45 13:15	MDC-V <i>Trick</i> 8-14
	4	14:15 15:45	SE-V <i>Dobric</i>
	5	16:00 17:30	SE-P <i>Dobric / Pech</i> 8-103
	6	17:45 19:15	SE-P <i>Dobric / Pech</i> 8-103
Dienstag	1	08:15 09:45	
	2	10:00 11:30	CC-P <i>Dobric / Pech</i> 8-103
	3	11:45 13:15	CC-P <i>Dobric / Pech</i> 8-103
	4	14:15 15:45	
	5	16:00 17:30	
	6	17:45 19:15	
Mittwoch	1	08:15 09:45	IP-V <i>Nauth</i> ab 09:00 Uhr im 8-14
	2	10:00 11:30	IP-V <i>Nauth</i> 8-14
	3	11:45 13:15	IDS-V <i>Jungke</i> 8-14
	4	14:15 15:45	

Methods, Systems and Networks
for Digital Communication

Software Engineering

Advanced Semesters
only

Image Processing

Identification of Dynamic Systems

Donnerstag	1	08:15 09:45	
	2	10:00 11:30	ITS-Ü <i>Frick</i> (Optional)
	3	11:45 13:15	CDCS-V <i>Weber</i> 8-14
	4	14:15 15:45	CDCS-V <i>Weber</i> 8-14
	5	16:00 17:30	ITS-Ü <i>Frick</i> 8-14
	6	17:45 19:15	ITS-V <i>Shala</i> 8-14
Freitag	1	08:15 09:45	
	2	10:00 11:30	BCD-V <i>Halmerl</i> 4-111+112
	3	11:45 13:15	BCD-V <i>Halmerl</i> 4-111+112
	4	14:15 15:45	BBE-V <i>Lämmlein</i> Block event (dates to follow)
	5	16:00 17:30	BBE-V <i>Lämmlein</i> Block event (dates to follow)
	6	17:45 19:15	
Samstag			BBE-V <i>Lämmlein</i> Block event (dates to follow)

Circuit Design for
Communication
Systems

IT Security

Cultural Diversity

Business Ethics

Lectures, Modules

- Start of lectures: Tuesday, 17th October 2023
- All lectures are in English
- Pilot course: <https://campuas.frankfurt-university.de/mod/url/view.php?id=16816>
- Password for pilot course: ***Lotsenkurs_E1***
- End of lectures: Friday, 9th February 2024
- Examination period: 12th February – 23rd February 2024
- Vacations are from 23rd December 2023 – 5th January 2024

Organisation and Administration

- Faculty of Computer Science and Engineering (Fb2):
<https://www.frankfurt-university.de/en/about-us/faculty-2-computer-science-and-engineering/welcome-to-faculty-2/>
- E-Learning platform Moodle
 - <https://campuas.frankfurt-university.de>
 - <https://campuas.frankfurt-university.de/course/index.php?categoryid=50>
 - CIT-Account Login required
- Postings (building 8, 1st floor, corridor): timetable, reports on current affaires, information acc. to examinations, decisions of examination board



- Teaching Unit Electrical Engineering
 - Ms Zühal Demirezen and Ms Yasemin Kilb
 - Building 8, 1st floor, Room 109
 - No fixed office hours



Zühal Demirezen

Referee for electrical engineering study programs

Building 8, Room 109

Phone : +49 69 1533-2267

Fax : +49 69 1533-2012

✉ sekretariat.lee@fb2.fra-uas.de



Yasemin Kilb

Secretary for electrical engineering study programs

Building 8, Room 109

Phone : +49 69 1533-2240

✉ sekretariat.lee@fb2.fra-uas.de

Examination Office

- Teaching Unit Electrical Engineering
 - Applications and requests concerning examinations or registrations
 - Ms C. Häusler, [pruefungsamt lehreinheitelektrotechnik@fb2.fra-uas.de](mailto:pruefungsamt_lehreinheitelektrotechnik@fb2.fra-uas.de)
 - Building 8, ground floor, Room 7
 - Office hours during the lecture period:
 - Monday to Thursday: 9:30 a.m. to 12 noon
 - Tuesday to Thursday: 01:30 p.m. to 03:30 p.m.
 - Friday: 10 a.m. to 11 a.m.
 - <https://www.frankfurt-university.de/en/about-us/faculty-2-computer-science-and-engineering/contacts-at-faculty-2/examination-office/>

Organisation and Administration

Head of Degree Course

Prof. Dr.

Armin Lehmann

Building 8, Room 6

armin.lehmann@fb2.fra-uas.de



Head of Examination Board

Prof. Dr.-Ing.

Ulrich Trick

Building 8, Room 6

trick@e-technik.org



Dean of Students & Complaint Management

Prof. Dr.-Ing.

Sven Kuhn

Building 7, Room 211

studiendekan@fb2.fra-uas.de



Professors/Lecturers
supervising the courses:

- Prof. Dr. Egbert Falkenberg
- Prof. Dr. Sebastian Helmle
- Prof. Dr. Manfred Jungke
- Prof. Dr. Barbara Lämmlein
- Prof. Dr. Peter Nauth
- Prof. Dr. Andreas Pech
- Prof. Dr. M. O. Steinhauser
- Prof. Dr. Peter Weber
- Prof. Dr.-Ing. Gernot Zimmer
- Dr. Damir Dobric
- Dr. Besfort Shala
- Dr. Patrick Wacht
- Sarah Haimerl
- ...

Important Information Sources

- Website Master IT

<https://www.frankfurt-university.de/en/studies/master-programs/information-technology-meng/for-prospective-students/>

- Documents for “Examination Regulations”:
“Prüfungsordnung” (examination regulations) and
“Modulhandbuch” (module handbook, course catalogue)

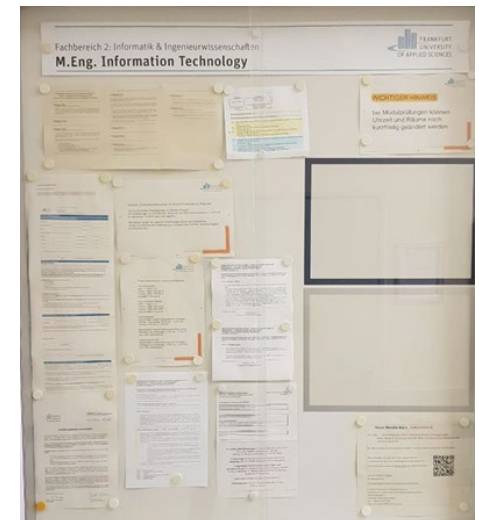
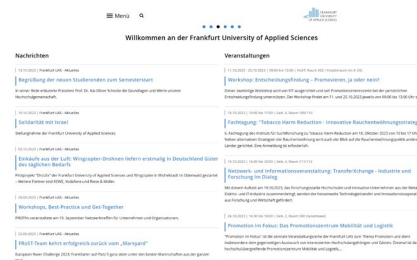
- Postings (1st Floor, Building 8)

- FRA-UAS web pages

- CampUAS web pages

- Web pages of professors, e.g. www.e-technik.org or ict-ffm.de

- Consultation hours of professors (online)



Examinations

- 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 necessary
 - <https://his.frankfurt-university.de/qisserver/>
 - Check your admission!
 - Online registration also for labs and projects necessary
 - HowTo: <https://www.youtube.com/watch?v=IK5GrLROCvI>

Deadlines Winter Semester 2023/2024:

Registration deadline in the HIS for the preliminary work of the modules of the 1st semester ends on **Wednesday, 25th October 2023**

The registration deadlines for projects also end on **Wednesday, 25th October 2023**

No late registrations are possible!

Examinations

- Failure to Appear → Not Passed!!!
- Illness → Medical Certificate is needed!!!
- Max. 3 attempts per exam
- Exam weeks: 12th Feb. – 23rd Feb. 2023

Questions?

