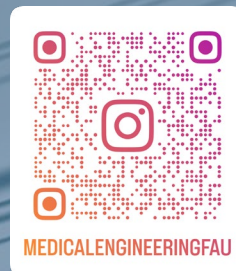


Medicine & Engineering

Our strong combination at FAU Erlangen-Nürnberg

Welcome, master's students of Medical Engineering!



Master Welcome Day, SS 25
Claudia Barnickel

Morning:

- **Welcome by Prof. Tobias Reichenbach**
(Director of the Medical Engineering program)
- **Introduction to the study program and FAU services**
(Claudia Barnickel, Study Advisor and Coordinator Medical Eng.)
- **Presentation by our student association (FSI MedTech)**
- **Walk to the computer science tower & break with drinks and snacks**
- **Introduction to our online portals (FSI MedTech)**
- **Guided campus tour (FSI MedTech)**

Noon:

Option to have lunch at the university canteen (Mensa)

1:30-2:30 pm, same lecture hall (H4): Special session for international students: How to succeed on the German job market

Your „why“

- Why are you here?
- Why Medical Engineering?

The Diversity of Medical Engineering in Germany's Medical Valley



Increase in population and diseases

Demographical development until 2050:

More people, longer life expectancy:

- | | |
|---------------------|-----------------|
| • Diabetes: +50% | Dementia: +100% |
| • Infarction: +100% | Stroke: +100% |
| • Cancer: +50% | |

→ Increasing demand for diagnostic and therapeutic treatment!



Your „why“ must go beyond job prospects!

- Potential job prospects are not going to carry you through a 4 + x semester master's program.
- You must find something in day-to-day uni life that interests you and motivates you.
- You don't have to be enthusiastic about every lecture every day, but if you are not enthusiastic about any lecture, you should take it as a sign that the program is not for you. → Look for alternatives early on!
- Everybody assumes that you are here because you are eager to learn. Nobody is going to push you towards receiving your degree. → Self-management, time-management, discipline are your responsibilities.

Contact Persons (Medical) Engineering



Director Medical Engineering Program

Prof. Dr. Tobias Reichenbach
Chair for Sensory Neuroengineering:
www.neurotech.tf.fau.eu
Department Artificial Intelligence
in Biomedical Engineering (AIBE)



Claudia Barnickel

Room 02.158 (2nd floor)

Martensstraße 3, 91058 Erlangen (computer science tower)

Consultation via

- email: studienberatung-medizintechnik@fau.de **OR** Claudia.Barnickel@fau.de
(= **the same recipient**: Please only send **one** email to **one** of the two addresses!)
- phone: +49 9131 8567337
- zoom (schedule an appointment via email)
- in person-sessions in the office: **only with previous online registration: study program website** → “Study Advisory Service” → booking tool

Consultation about

- questions regarding your studies
 - accreditation of academic achievements
 - help in situations of crisis
 - Studying abroad in European countries (Erasmus+ program)
- **questions you cannot solve on your own by reading our website, study guide or FAQs**

Examinations Office Faculty of Engineering

Helga Jahreis

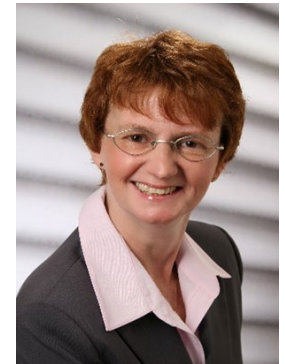
Room 1.042 (1st floor)

Halbmondstraße 6, 91054 Erlangen

(City Center)

+49 9131 8524752

helga.jahreis@fau.de



Consultation about

- managing exams, credits, grades online via the Campo portal
- last-minute withdrawal from exams due to illness or other severe reasons (submission of medical or other certificate)
- application for extension of studies (7th semester and beyond), see form on website of the Examinations Office

Elisabeth Grosso

Room 1.031 (1st floor)

Halbmondstr. 6, 91054 Erlangen

(City Center)

+49 9131 8524809

elisabeth.baechle-grosso@fau.de



Consultation about

- General study-related questions (e.g. when your program advisor is on holiday or sick leave)
- Advisor for all engineering programs



Gisela Jakschik



Christine Mohr

tf-stib@fau.de

(Office with glass walls in the central lecture hall building)

Consultation about

- Lost & found objects
- Soft skills courses (free of cost), e.g. presentation skills, communicating at the workplace etc.
- Studying abroad: international partnership programs of the Faculty of Engineering (non-Erasmus = non-European countries)

Other FAU Services



FAU email account

www.faumail.fau.de

- **Forward emails from your FAUmail account to you private email account!**
Log into www.idm.fau.de – „self service“ – „email“ – click on the magnifying glass symbol – enter your private email address.
- **All important information regarding your studies will be sent to your FAUmail account. You are responsible for receiving and reading it!**

The image shows the FAUmail login interface. It has a dark background. At the top left is the FAU logo, and next to it is the text "FAUmail". Below this, there are two white input fields. The first is labeled "Benutzername" and the second is labeled "Passwort". Below the password field is a white button with the text "Anmelden".

FAUmail

Benutzername

Passwort

Anmelden

24/7 access to the Computer Science Tower

www.idm.fau.de

- Activate the 24/7 access function for your FAUcard in the IDM portal via “Door Access - Computer Science Tower”. Your FAUcard will then function as a key card for the building outside of its regular opening hours.
- You can come anytime to use the computer rooms!



Foreign Language Training

Sprachenzentrum (Language Center): www.sz.fau.de

- Courses during the lecture period are **free of cost**.
- Intensive courses during the semester break have a fee.
- **Registration** required for all courses. **Register today!**
- **German courses: For international students, German skills are going to be the decisive factor whether you find a job in Germany or not!**
- Recommended languages to prepare for studying abroad:
e.g. Spanish, Portuguese, Italian, Finnish,...
- Language courses suitable for module group **M8 (Free Choice Uni)**
- Language courses are taught on-site, assistance is mandatory, places are limited. If you get into a course, assist regularly and finish it!
- The Virtual University of Bavaria (www.vhb.org) offers online courses in different languages (for free), but most of them cannot be counted towards your studies. → Still a good alternative if you don't get into the FAU courses right away. **Recommended VHB online course: "German after English"!**

Foreign Language Training

Language tandem, offered by FAU Language Center:

<https://sz.fau.eu/departement-media-autonomous-learning/autonomous-language-learning/tandem/>

- Not a course, but you can sign up to be matched with a native speaking FAU student of your desired language who wants to learn your language.
- You can meet up regularly to practice both languages.

Weekly language meetup „Sprachcafé“, organized by Studierendenwerk (Student Services)

- Open event next to cafeteria „Südblick“, on Wednesdays 6-8 pm (starting from April 30)
- Current languages on offer: German, English, Farsi, Spanish, French, Chinese, Bengali, Japanese
- You can offer to be a tutor for your own language!

Career Service

career-service@fau.de

www.career.fau.de



- Support in your job search (for student jobs & after graduation) - *but no placement in companies*
- Professional feedback on your application documents
- Simulation of job interviews
- Useful workshops and seminars

Free of cost – definitely use this service during your studies!

Office of Equality and Diversity



www.equality-and-diversity.fau.eu

- Support and networking for women in science
- Support and networking for students with a migratory background
- Support and networking for first-generation academics
- Support and networking for the LGBTQ+ student community
- Support for students experiencing discrimination/harassment of any kind (due to gender, ethnicity, religion, sexual orientation/identity etc.)
→ **Report cases of harassment!**

Family Service



<https://www.familienservice.fau.eu/>

- Advice on studying during pregnancy and childcare (special protection measures, benefits and support)
- Information on childcare facilities
- Meetups with other student parents

→ If you came to FAU with children or are pregnant, definitely make an appointment with the Family Service!

Advice for Students with Disabilities or Chronic Diseases

Dr. Tobias Schulz

beeintraechtigt-studieren@fau.de

- General advice and support (e.g. accessibility of buildings)
- Compensation of disabilities during examinations (e.g. more time)



What counts as a...

- **disability?** All physical and mental impairments lasting at least 6 months
- **chronic disease?** Illnesses that require at least one medical treatment per quarter over the course of one year

Psychological Counseling at the Faculty of Engineering

Elizabeth Provan-Klotz

Benjamin Ruopp

<https://www.tf.fau.de/studium/beratung/psychologische-beratungsstelle/>



Assistance with:

- Fear of speech, writing and exams
- Difficulties with learning, motivation problems
- Stress management
- Anger and impulse control problems
- Loneliness, depression, feelings of guilt, fears, thoughts of suicide
- Studying with a chronic illness or disability
- Relationship, partner and family problems
- Identity and orientation problems
- Displacement from parents/home country
- Questions about addiction and addictions (e.g. nicotine, alcohol, internet)
- Integration and cultural difficulties

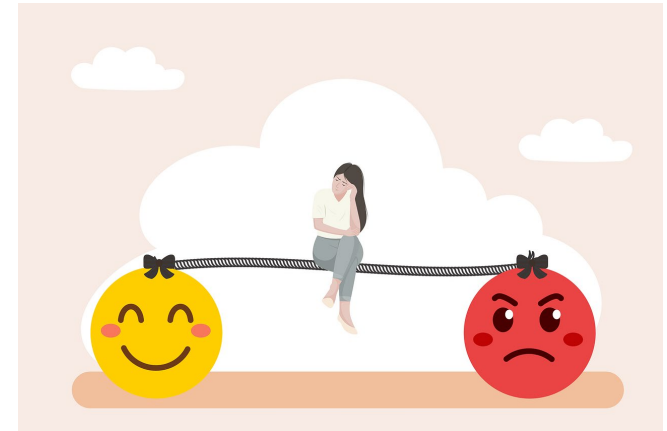
Other mental health-related offers

www.werkswelt.de

→ Section „Service and Counselling“

Courses on topics such as

- exam anxiety
- getting through your studies in good health
- etc...



Registration required!

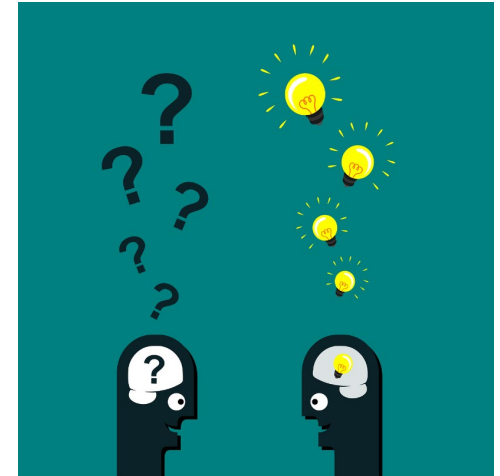
Make sure to take these courses before the exam period approaches/your health declines!

Legal Advisory Service

rechtsberatung@werkswelt.de

<https://www.werkswelt.de/rechtsberatung>

- Free & professional advice on problems with rental contracts, work contracts, visa status etc.



Student Groups

www.stuve.fau.de/gruppen/

- Groups for all kinds of interests: theater, debate club, robotic soccer, politics, FAUFabLab, mindfulness & meditation, social engagement, national groups (e.g. Chinese or Pakistani students at FAU) etc.
- Just contact the groups and ask about their next meeting.
- You can also found and register your own group!

→ Pick out one group and join it in your 1st semester. It will make your studies easier, more fun and more successful. **You cannot „survive“ in university life without locals who know how things work!!!**



Buddy program

<https://www.fau.eu/education/international/from-abroad/welcome-programme-for-international-students/buddy-programme/>

- The buddy program puts international students in contact with German students who can answer some of their questions and provide useful tips.
- Buddies are not official advisors – they are volunteer FAU students who are interested in other cultures and would like to help international students.
- They can show you around Erlangen, help you find a used bike, recommend a medical doctor etc. - i.e. support you with questions you wouldn't ask your study advisor.



University Sports

www.hochschulsport.fau.de

- Different sports courses at a low price
- Registration for the current semester has already started, but you might still get a left over spot.
- If you want to get into the popular courses you have to be really fast on registration day!
- **Don't underestimate the effect of sports for your physical and mental health!**



How to find information...

Your **24/7 source** for all **medical engineering-related** services and information:

- www.medical-engineering.study.fau.eu
- www.medizintechnik.fau.de

...including today's presentations (section „Start Current Students“/“Start Studierende“)!

How to find information...

Your best strategy to access the **other FAU services** mentioned today:

Just type **“FAU” + keyword** in **google!**

E.g.

“FAU university sports”

“FAU psychologist”

“FAU legal advice”

“FAU language tandem”

“FAU semester dates”

etc.

Why we expect you to look up information on your own

- **University statutes:** FAU provides training to students “to become critical, **self-reliant** personalities, who apply skills and knowledge independently, responsibly and for the good of society” → We provide **help for self-help:** “Give a man a fish and you feed him for a day. Teach him how to fish and you feed him for a lifetime.” (Chinese proverb)
- FAU is a public university. You don’t pay tuition fees – **and we want it to stay that way!** Taking care of yourself is the “price” you pay for not paying for your studies. By not burdening our officers with work when you don’t really need their help you ensure that your education stays free of cost. Currently, everything is paid for by the German tax payer. → **Staff is limited!**
- **DIY culture** vs. “Call the guy” culture: Identify where your culture of origin lies on that spectrum (Who assembles furniture in your country? Who puts in the gas at the gas station? Who cleans the house?). Germany is on the DIY end of the spectrum.
- General rule for all university units (public service in general): Your own **proactiveness makes people more inclined to help you.** Passivity makes people less inclined to help you.
- Self-sufficiency and independent problem-solving are **primary skills expected by employers** in Germany. If you haven’t developed them by now, this is the last educational phase in which you can learn to develop them.

→ **Before you send an email, check if you can solve the problem by looking up information online!**

Master's Program Medical Engineering

Program Structure



- ***European Credit Transfer and Accumulation System***
Assessment of student workload required for the learning outcomes of a program
 - 30 credits: recommended workload per semester
 - 1 credit: \approx 30 of hours of work (in class & at home)
- You will find information on ECTS in the module catalogs, in the online information system Campo, on your Master's certificate/Transcript of Records.

Master's Program Medical Engineering: Structure

M1 - Medical Specialisation
Modules (10 ECTS)

M4 - Advanced Seminar
Medical Engineering
(5 ECTS)

M6 – Practical (lab) Modules
(10 ECTS)

M7 – Flexible Budget Faculty
of Engineering (10 ECTS)
(any engineering course on Master's level
& some economics courses*)

M8 – Free Choice Uni
(5 ECTS)
(any graded course, all faculties)

**M2, M3, M5 = Branches of Study
(20+20+10 ECTS)**

- Medical Electronics (German)
- Medical Production Technology, Device Engineering and Prosthetics (German)
- Medical Image and Data Processing (German and/or English)
- Health & Medical Data Analytics and Entrepreneurship (English)
- Medical Robotics (English)

M9 – Master's Thesis (30 ECTS)

Master of Science (M.Sc.)

120 ECTS in total

*exception: HMDA, see HMDA catalog!

- Total of 120 ECTS credits should be evenly spread over 4-6 semesters; there is no minimum or maximum amount of ECTS per semester but we **strongly recommend** to acquire

20-30 ECTS credits per semester.

- Few compulsory modules (**see footnotes in your module catalog!**)
- Mostly free choice within the list for each module group
- Not all lectures are offered in winter and summer (see catalog), time slots may differ from semester to semester; there may be time overlaps (refer to video lectures: www.fau.tv)
- Recommended time for going abroad: 3rd or 4th semester (start planning now, see study program website)

Semester Structure

- *Regular* duration of studies: 4 semesters/two years (can be extended to 5 or 6 semesters simply by re-registering + paying the semester fee), further extensions to a 7th, 8th semester and beyond possible in justified cases; **prerequisite: you study actively and pass enough exams.**
- Semester: lecture period (14 or 15 weeks) + lecture-free period ('holidays' \approx 12 weeks)
- Two exam periods: first 2 weeks and last 4 weeks **of the lecture-free period (holidays)**
- Every exam takes place **once** per semester in one of the two exam periods (not both).

How to select your courses

- Take and pass the mandatory courses as soon as possible!
- Choose the rest of your courses wisely!
 - Choose according to your talents/interests. → Your course profile will eventually lead you to your master's thesis topic.
 - Identify your knowledge gaps and take corresponding courses to fill them. → Your desired supervising lab for your master's thesis will only accept you if you possess solid knowledge in its research field.
 - Do not just take courses because your friends take them or somebody told you the exam will be easy. → An incoherent course profile („course salad“) will result in a big struggle to find a master's thesis.
 - Do not choose courses based on a perceived job market demand. → If you take courses in AI because everybody talks about AI but you don't care about AI, you will receive bad grades in AI and no AI company will hire you.

Exams

- **You have to register for the exams you want to take.** Exam registration is independent from course participation. I.e. you can attend a lecture, but not take the exam. You can choose not to attend a lecture, but study on your own and take the exam.
- You have **4 chances** in total for every exam (1 chance per semester). You can decide in which semester you want to take your exam attempts, but don't wait too long (lecturer might leave FAU, only 6 semesters are guaranteed for the master's)!
- **Failed 4th exam attempt = end of Med. Eng. studies & loss of visa (for non-EU students with a study visa) → Apply for alternative study programs at the beginning of every semester in which you have a 4th attempt!**
- Cheating in exams is graded with 5.0 (failed) and reported to our examinations office. If you are caught cheating several times you are deregistered from the study program.

Withdrawal from registered exams

- Until 3rd working day (Mon-Fri; public holidays don't count) before the exam day without giving any reasons (self-deregistration via Campo portal)
- Last-minute withdrawal is possible in case of illness/severe reasons (send medical/other certificate immediately to Mrs. Jahreis of the Examinations Office)
- If you feel sick during an exam, you must tell the supervisors, leave the exam and see one of the authorized FAU doctors (see Medical Engineering website „Current students“); if the doctor confirms your illness, the exam attempt doesn't count.
- If you don't attend an exam that you are registered for without submitting a medical/other certificate, it counts as a failed attempt!

Studying for exams

- Memorizing and reproducing course content is not enough. You are expected to understand the underlying concepts and apply them to new contexts (calculate, code etc.).
- Study with old exams from FSI (student association). But be aware: The exam will include questions/tasks you have never seen before. You are expected to solve them independently.
- Start studying early on (i.e. when lectures start). You won't be able to prepare exams a few days ahead of the exam date.
- Find a system to study in parallel for several exams (exam dates will lie close to each other, you cannot study for one exam at a time).
- Attending the exercises and submitting exercise sheets regularly is your best exam preparation.
- Ask questions in class and during the exercises. It is seen as 100% positive and is highly appreciated by your lecturers!
- Form study groups with fellow students (it helps to compare and assess where you currently stand).

How to find a study group

Register on our online platform „Study Buddy“ and contact students who are taking the same courses/preparing for the same exam as you!



Exam results

- 1,0 = best grade; 4,0 = worst passing grade; 5,0 = failed
- **Grades are feedback on your skills!**
- If you fail an exam once, it means that you prepared for it the wrong way. → Adapt your preparation strategy!
- If you fail several exams in your first semester → Ask yourself if it is your preparation strategy or if the program is not the right fit for you.
- If you continue to fail several exams and/or receive unsatisfactory grades (3,0 – 4,0) → prepare an exit strategy (other study program, other university/university of applied sciences, prepare to enter the job market etc.)
- If your studies aren't going well, don't wait too long to opt for alternatives! You will only lose time and money.
- You will not find a supervisor for the master's thesis with an unsatisfactory grade average.
- You will not find a job in Germany/Europe based on a master's degree with an unsatisfactory final grade.
- There is a fitting educational program for everyone. If it is not ours, search actively for yours!

Semester Dates

Summer semester 25 (Apr 1 – September 30 2025):

Lecture Period: **Apr 23 - July 25 2025**

Exam Registration: **June 2 - June 22 2025**

(Reminder via email!)

Re-registration for winter 2025/26: **first week of July 2025**
(Reminder via email!)

Semester break (no lectures): **July 26 - Okt 12 2025**

Exam periods: **July 28 - Aug 9 & Sep 12 - Oct 12 2025**

Resources: www.fau.eu/education/study-organisation/semester-dates/
www.fau.eu/education/advice-and-services/examination-offices/examinations-office-faculty-of-engineering/

Types of Courses

- **V/L:** Vorlesung/lecture – generally no registration, attendance not mandatory (but highly recommended!). → **Just attend the first lecture.**
- **Ü/E:** Übung/Tutorium; exercise class/tutorial – accompanies lectures, usually starts in the 2nd week, further details in the 1st lecture. Usually not mandatory, but completing the exercises may give you bonus points for the exam. Attending exercises = best exam preparation! → **Just attend the 1st lecture to find out about the exercise modalities.**
- **P:** Praktikum/practical course (lab course) – attendance mandatory, early registration (see Campo) – **not relevant/recommended for 1st semester**
- **S:** Seminar – attendance mandatory, early registration (see Campo)- **not relevant/recommended for 1st semester**

- **Prüfungsleistung (PL)/Graded course achievement (gCA)**

- schriftlich/written
- mündlich/oral
- Seminar (presentation and paper)

Most of the exams at FAU are on-site exams, very few online exams!

- **Studienleistung (SL)/Ungraded course achievement (uCA):
pass/fail system**

- e.g. exercise classes or practical courses
- Hochschulpraktikum/Academic Laboratory (M6.1)
- Forschungspraktikum/Research Laboratory (M6.2)

Module Catalogs

Gruppe	Modulnummer	Module	Modulbezeichnung (Veranstaltungsname)	Abkürzung	V+Ü+S+P	Gesamt ECTS	1. Jahr WS SS	2. Jahr WS SS	Studien- und Prüfungs- leistungen	Department	Modulverantwortlicher / Dozent	WS/SS
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**‘Grundcurriculum’/
common catalog
(for all branches,
taught in German)**

Wahlkatalog	M 1 Medizinische Vertiefungsmodule			V+Ü+S+P						10	5	5	0	0	0	PL				
	M 1.1 ¹	Grundlagen der Anatomie & Physiologie für Nichtmediziner Clinical Applications of Optical Technologies and Associated Fundamentals of Anatomy	AnaPhys_M1 OMED/CA	4+0+0+0	5	2,5	2,5	0	0	0	60 s	VORKLIN	Prof. Dr. Clemens Forster	WS/SS						
	M 1.2	Medizinische Vertiefung 1			5	5	0	0	0	0	60 s	KLIN	Prof. Dr. med. Michael Eichhorn	SS						
	M 1.3	Medizinische Vertiefung 2			5	0	5	0	0	0	60 s	KLIN	N.N.	WS						
	Liste der Lehrveranstaltungen für M1.2 bzw. M1.3																			
		Interdisziplinäre Medizin		0+0+2+0	2	2	0	0	0	0	45 s		Prof. Dr. med. Harald Mang	WS						
		IT-Unterstützung im Prozess der diagnostischen Bildgebung		1+0+0+0	1	1	0	0	0	0	45 s		Dr. Thomas Kauer	WS						
		Grundlagen der biologischen Strahlenwirkung I		2+0+0+0	2,5	2,5	0	0	0	0	45 s		PD Dr. med. Luitpold Distel	SS						
		Grundlagen der biologischen Strahlenwirkung II		2+0+0+0	2,5	2,5	0	0	0	0	45 s		PD Dr. med. Luitpold Distel	WS						
		Grundlagen der Kardiotechnik		2+0+0+0	5	5	0	0	0	0	60 s		Prof. Dr. med. Harald Mang	WS						
M 1 Medizinische Vertiefungsmodule									10	5	5	0	0	0						
M 2 Ingenieurwissenschaftliche Kernmodule									20	10	10	0	0	0						
M 2.1 Ereignisgesteuerte Systeme									5	5	0	0	0	0						
M 2.2 Grundlagen der Systemprogrammierung									5	5	0	0	0	0						

An updated version is published at the beginning of every semester!

**Catalog for each
branch of study**

M 1	Medizinische Vertiefungsmodule				PL				siehe Wahlpflichtkatalog für alle Studiennrichtungen							
M 2	Ingenieurwissenschaftliche Kernmodule				V+Ü+S+P				20	10	10	0	0	PL		
	Basic Modules / Basic Modules (B)															
M 2.1	Ereignisgesteuerte Systeme	EGS	2+2+0+0	5	5				90 s	INF	Dr.-Ing. Michael Gieß	WS				
M 2.2	Grundlagen der Systemprogrammierung (Systemprogrammierung 1)	GSP (SP 1)	2+2+0+0	5	0	5	0	0	90 s	INF	Prof. Dr.-Ing. Wolfgang Schröder-Preikschat	SS				
M 2.3	Digitale Übertragung / Digital Communications	DÜ / DiCo	3+1+0+0	5	5				90 s	EEL	Prof. Dr.-Ing. habil. Johannes Huber, Prof. Dr.-Ing. Robert Schober	WS: engl. SS: dt.				
M 2.4	Signale und Systeme II	SISY II	2,5+1,5+0+0	5	0	5	0	0	90 s	EEL	Prof. Dr.-Ing. André Kaup	SS				
M 2.5	Computergraphik / Computer Graphics	CG	3+1+0+0	5	5				30 m	INF	Prof. Dr.-Ing. Marc Stamminger, Prof. Dr. Günther Greiner	WS				
M 2.6	Digitale Signalverarbeitung / Digital Signal Processing	DSV	3+1+0+0	5	5				90 s	EEL	Prof. Dr.-Ing. Walter Kellermann	WS				
Aufbaumodule / Advanced Modules (A)																
M 2.7	Pattern Recognition	PR	3+0+0+0	5	5				30 m	INF	Prof. Dr.-Ing. Joachim Hornegger	WS				
M 2.8	Pattern Analysis	PA	3+0+0+0	5		5			30 m	INF	Prof. Dr.-Ing. Elmar Noth	SS				
M 2.9	Statistische Signalverarbeitung / Statistical Signal Processing	STASIP	3+1+0+0	5		5			90 s	EEL	Prof. Dr.-Ing. Walter Kellermann	SS				

Wahlkatalog

Where can I find the catalogs?

Website of the Medical Engineering programme:

<http://www.medizintechnik.studium.fau.de/>

→ Studierende → Masterstudium → Überblick und Modulkataloge
FPO 2023

<http://www.medical-engineering.study.fau.eu/>

→ Current students → General Study Information Master's Program
→ General Study Information & Course Syllabus (FPO 2023)

- Your FPO version remains valid for you throughout your whole studies! In Campo, you can find your courses under „PO-Version 2022“.
- Module catalogs are updated every semester on the Medical Eng. website! Always use the current catalog & read the footnotes!

What else can I find on the study program website?

<http://www.medizintechnik.studium.fau.de/>

<http://www.medical-engineering.study.fau.eu/>

- Study Guide = a booklet about everything you need to know about your studies (German and English version)
- Today's presentation slides (section „Start Current Students“/“Start Studierende“)
- Detailed information on all modules in your study program, studying abroad, accreditation of coursework etc.
- Links to examination regulations (for the Medical Engineering program= FPO, for the Faculty of Engineering: ABMPO)
- Important forms
- FAQ section → 99% chance that your questions are already answered there!
- News & events
- Job & thesis offers related to Medical Engineering

The written word is the most trustworthy source of information!

M9: Master's Thesis

- independent execution of scientific tasks in Medical Engineering
 - **Prepare yourself early on:** e.g. through lectures “Nailing your thesis”, „Scientific Writing“ etc. (see Medical Engineering website).
- Prerequisites: 75 ECTS credits, completion of all mandatory modules (see footnotes in catalogs)
- to be completed within 6 months
- Look for your topic **in due time** (beginning of your penultimate semester at the latest!)
 - **Select your modules in preparation of your thesis topic, attend the courses physically & interact with the lecturers!**
- Look for thesis topics on the labs' websites, ask for personalized/non-advertised topics at the labs (professors, PhD students).
- Specific details, formalities, thesis form → Medical Engineering website

What's next?

- 1. Compile your class schedule**
→ Campo (guided session by student association today)
- 2. Join the first lecture meetings (starting tomorrow)**
Lecture materials are shared via the e-learning platform StudOn
If you encounter problems with the StudOn course → attend the first lecture meeting and ask your lecturer!
- 3. Register for exams** → Campo (June, reminder via email)
- 4. Re-register for the next semester (1st week of July)**
→ Campo, bank transfer (reminder and details via email)
- 5. Study continuously from the beginning & pass exams!**

Good to know...



Important information for international/non-EU students

- **No enrollment = no study visa!** Failed 4th (=last) exam attempt → deregistration from our Medical Engineering program by the end of the semester → loss of your visa by the end of the semester → You have to return to your home country!
- **GOLDEN RULE:** When you register for a 4th attempt for any exam, you **MUST** apply for (and receive admission to) another English-taught master's program for the following semester so that you have a backup plan. **Take this matter VERY SERIOUSLY!** Do not only apply for programs at FAU but for programs at other German universities, too!
- **Student jobs** (at the university and at companies) and rooms in **student dorms** depend on your student status. **No enrollment = loss of student job and student dorm!**
- You must report changes of your study program to the Immigrations Office. You will usually only get permission to change your study program **once!** If you are de-registered from your study program, you also have to report this immediately!

“Safety measures“ international/non-EU students

- Get your bachelor's degree recognized at ZAB (Central Office for Recognition of Foreign Degrees) as soon as possible: www.kmk.org/zab/
- If you don't get a spot in the German courses of our Language Center right away, study on your own with the free German courses offered at the Virtual University of Bavaria (www.vhb.org) & speak German at university! Try to reach at least B1 level!
- Solidify your programming skills (most sought-after skills on the current job market)! This may help you find a well-paid (full-time) job based on your (officially recognized, see above) bachelor's degree if you need it (work visa instead of study visa). On a study visa, you are only allowed to work 140 full days or 280 half days per year.
- Seek the advice of our officer of the German Employment Agency early on (consultation sessions at our faculty: michael.huemmer@arbeitsagentur.de)
- Network with companies in the region (attend events by Medical Valley Center, Zollhoff Tech Incubator, Fraunhofer Institute, job fairs etc.).
- **Be active: Prepare for the worst case scenario, so that you have the best possible time in Germany!**

Special tips for international students:

Expect the unexpected!

- Reflect on what is typical for university life in your home country (style of lectures, exams, interactions with professors/staff etc.) and operate with the working model that those aspects are going to be different in Germany.
- You'll have plenty of time to observe, ask and research in which ways they are different, but you should never assume that things are as you are used to.
- **Assuming that things are like in your home country is the number 1 reason why students drop out of our program!**

Take as many courses about German culture as you can!

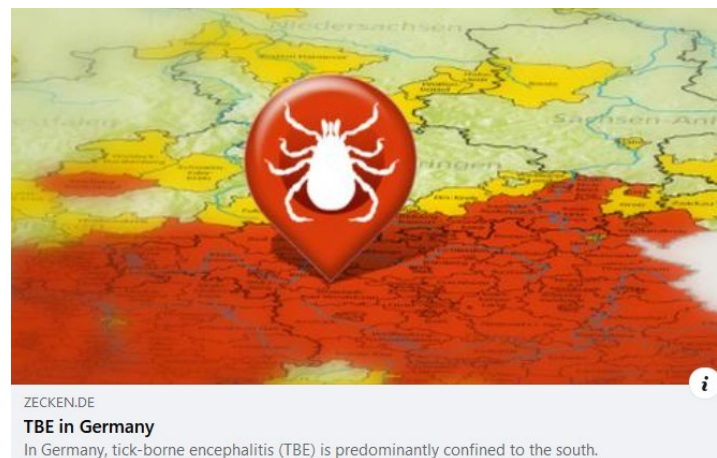
- If you don't learn to manage the cultural differences you will struggle in every single aspect of life.
- Courses are offered by the FAU Career Service, FAU International Office and the Study-Service-Center of the Faculty of Engineering.

Know people's complete names, their title and their lab affiliation!

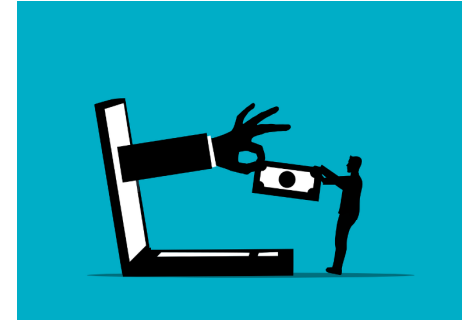
- Not knowing people's full name is perceived as unprofessional and will hinder your success.
- Understand the personnel structure in academia:
A person working at a lab with the title M.Sc. = PhD candidate → „Dear Mike Smith/Dear Mike (if Mike has offered you to interact on first-name basis)...“
A person working at a lab with the title Dr. = Postdoctoral researcher (Postdoc) → „Dear Dr. Smith...“
A person working at a lab with the title Prof. = Professor, i.e. highest academic degree in Germany → „Dear Prof. Smith...“
→ Do not call everybody „professor“!

Do not show up at people's offices with scheduling an appointment! It is perceived as disrespectful.

- Make an appointment with a general medical practitioner and get all the recommended vaccines (among others: tick-borne encephalitis, TBE)!
- If you are not vaccinated with an EU-approved covid vaccine yet, you can also get vaccinated by any general practitioner.
- All recommended vaccines are covered by your health insurance (i.e they are free of cost).



- **Beware of scams!** No university staff member will ever ask you to buy things for them (e.g. google play cards) or send them money. If this happens to you, the respective email account has been hacked. Please report to our Computer Center!
- Don't share your **personal data and passwords!**
- **Beware of scams** when looking for **housing** and **jobs!** If something seems too good to be true, have the offer checked by our Accommodation Service (accommodation@fau.de) or International Office (welcome-students@fau.de).
- **Intellectual property** (e.g. own text vs. citing in scientific publications), **authorship** of lecture recordings/materials, **personal rights & privacy** (regarding photos etc.) are taken extremely seriously! Never use/share without asking/citing correctly! The use of **ghost writing services/ChatGPT in assignments is sanctioned!**

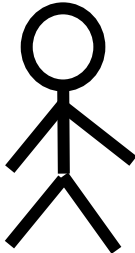


Success or problems in your studies don't just "happen" to you...

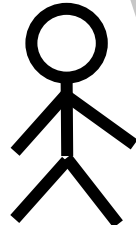
**failed 4th exam attempt
= deregistration from
the study program =
loss of study visa!**



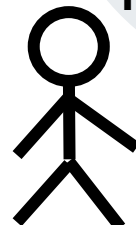
Most of the problems you will encounter are caused by a series of small bad decisions:



**I won't read the study guide.
I'll have my friends explain to
me what they think they
understood about the
program.**

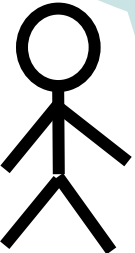


**I am a shy guy, I don't
socialize with other
students.**

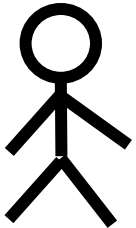


**Should I look this up
on the Medical
Engineering website?
Nah..I'll rather go with
my gut feeling!**

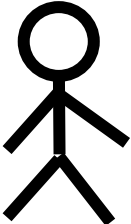
Success is built through a series of small good decisions:



Let's attend a university event! We might even meet researchers and find a job at their lab or a master's thesis...



I'll sign up for a sports course/student group. This will keep me motivated for my studies.



I feel really bad about this situation. I better talk to a study advisor/psychologist about it.

Thank you for your attention!
Questions?

**Have a great start of the
semester!**

Stay active, curious and connected!

