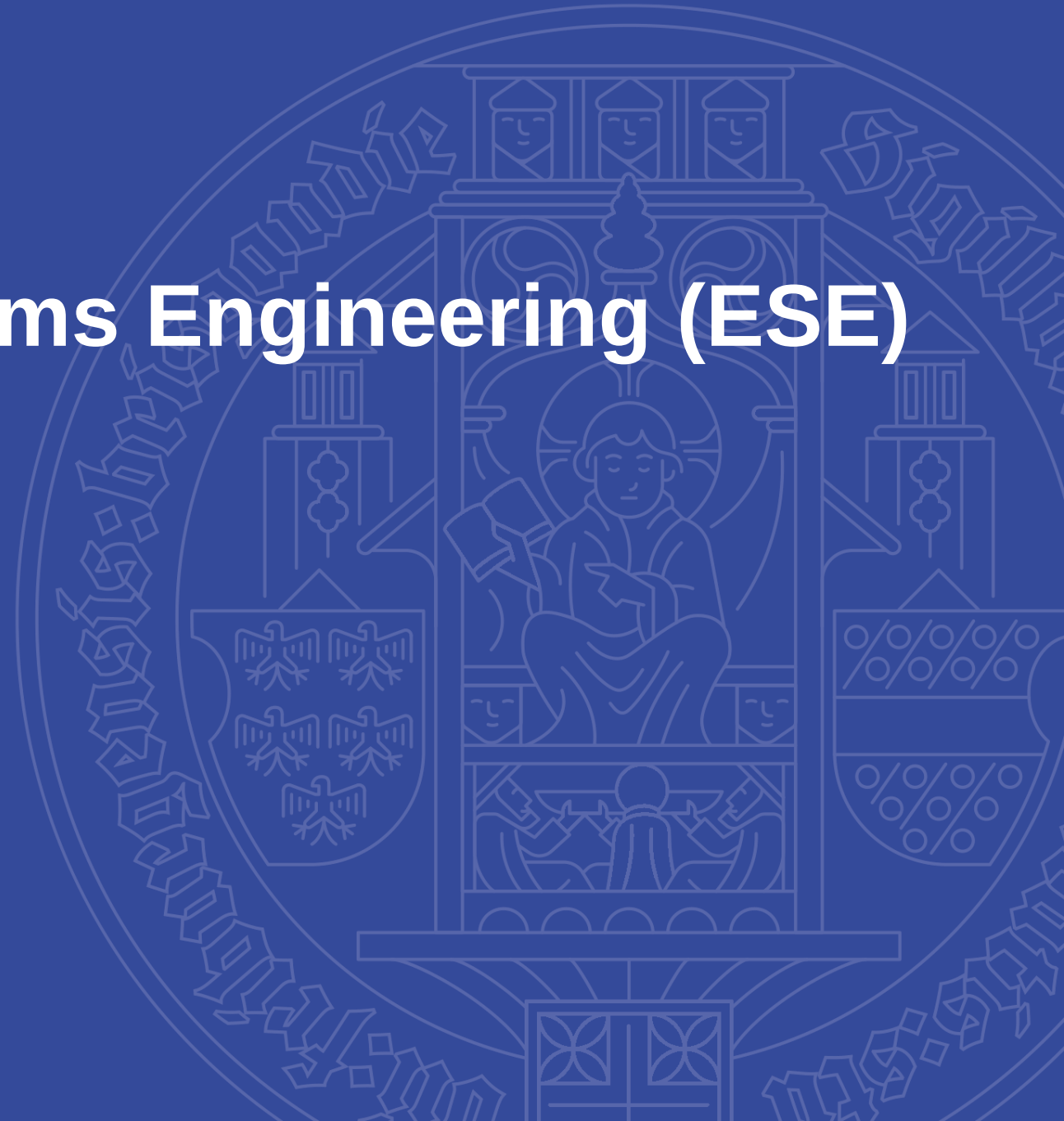


universität freiburg

# M.Sc. Embedded Systems Engineering (ESE)

Administrative information

Faculty of Engineering  
University of Freiburg  
October 9, 2025



# Programme coordinator and study advisors

- Martina Nopper (Dipl.Inf.)
- Study Advisor for Computer Science and ESE
- Phone: +49 761 203 8169

Phone Consulting hours: Monday 1:30 – 4 p.m. + Thursday 9:00 – 11:30 a.m.

- No open door policy! Personal consultation by appointment only.
- More information about consulting (and changes to consulting hours) see here:  
<https://www.tf.uni-freiburg.de/en/study-programs/counseling>

Counterpart in the MSE Department:

- Frank Goldschmidtboing
- Phone: +49 (0) 761 / 203 – 7496

Mail (*shared!*): [studienberatung@ese.uni-freiburg.de](mailto:studienberatung@ese.uni-freiburg.de)



# Today I'll show you...

1. How to organize your studies
2. Some administrative things
3. Some important rules regarding exams
4. Where you can get information and help

# 1. Syllabus / Study Plan



# Vocabulary you should know... part 1



**Modules** = building blocks of the syllabus

- Consist of various elements (different symbols/icons in study planner)
- Credits are given for complete module, no „partial credits“



Courses in the ESE programme :

- Lectures – Vorlesung (V)
- Exercises – Übung (Ü)
- Lab courses – Praktikum / Praktische Übung (Pr)
- Seminars – Seminar (S)
- Projects – Projekt (*a*/so Pr)

# Vocabulary you should know... part 2

Achievements: Graded assessments or pass/fail :



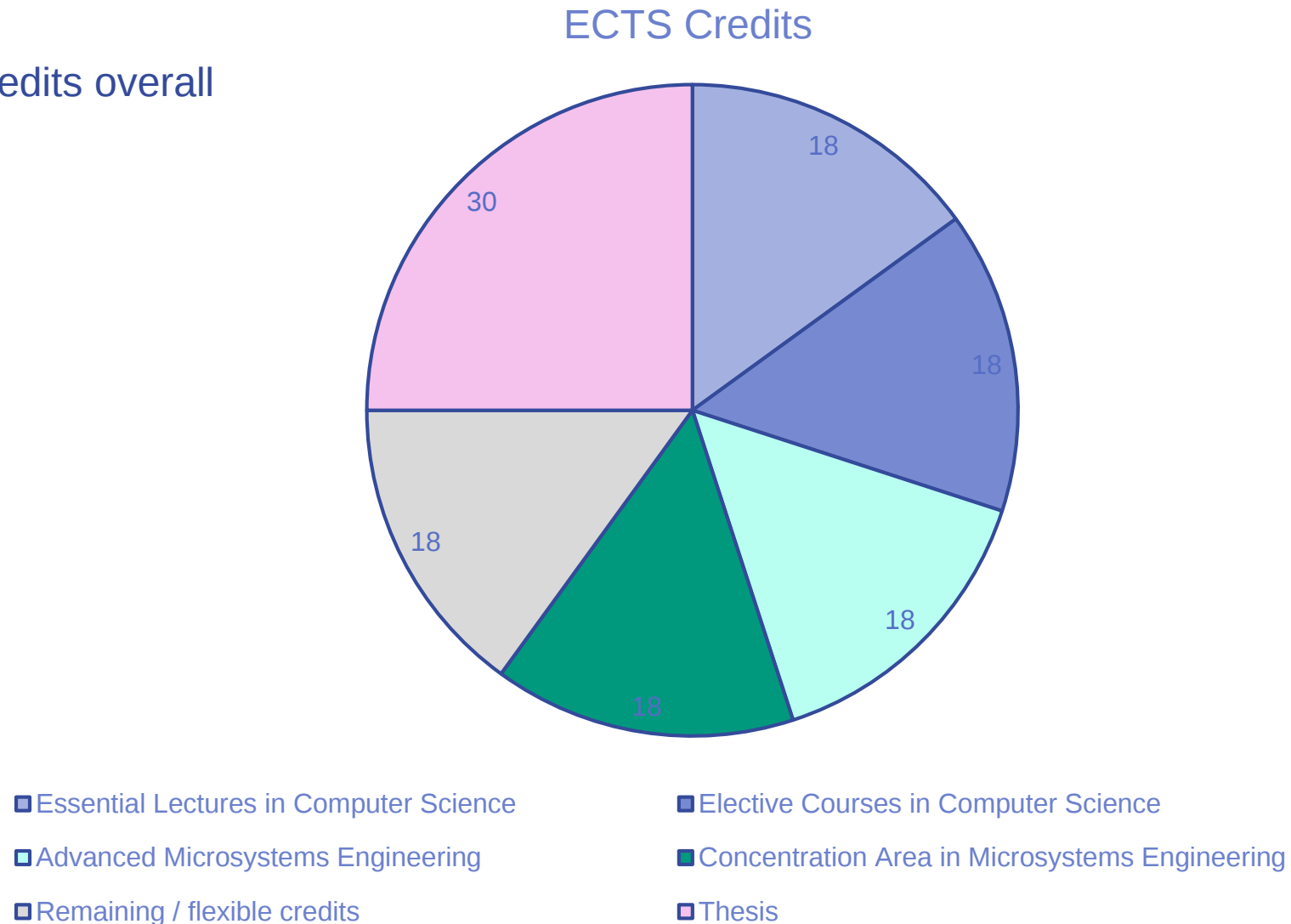
- Coursework or pass/fail assessments (“Studienleistungen”, SL)
  - Part of module or final assessment
  - May be graded, or only “pass” or “fail”
  - Not part of the final grade
  - No negative consequences if failed (just might have to be repeated)



- Graded assessments /Exams (“Prüfungsleistungen”, PL)
  - Always graded
  - Always counts into the final grade
  - Strict rules/regulations and very limited number of attempts

# Syllabus: General structure by ECTS

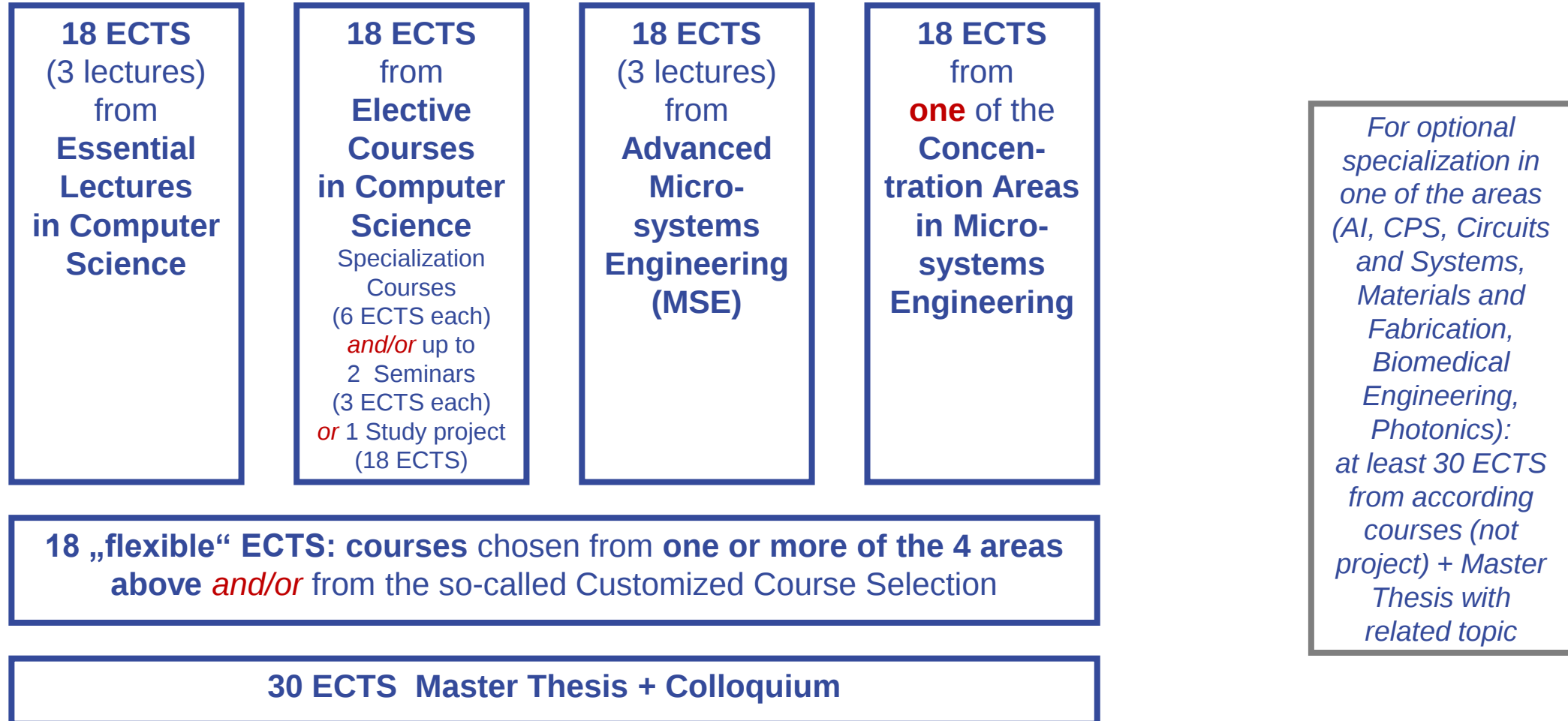
120 ECTS Credits overall



# Syllabus: Rules

- 4 mandatory areas with 18 ECTS each
  - 2 Computer Science (Essential Lectures in CS + Elective Courses in CS)
  - 2 MSE (Advanced MSE + Concentration Area in MSE)
- Remaining 18 ECTS have to be distributed among
  - Either one or more of the above mentioned areas
  - And/or the (optional) area of Customized Course Selection (Please Note: This is **not** the name for these 18 „flexible“ credits! It's a colorful selection of different pass/fail courses.)
- You are not allowed to take more courses than necessary to meet these requirements
- In general, you have to aim at 90 credits in your course planning (no massive „overshooting“ of credits – this is especially important with projects)

# Syllabus: General structure



# Essential Lectures in Computer Science

| Module<br>(take courses up to at least 18 ECTS) | ECTS | Semester (recommended)<br>when starting in winter semester |
|-------------------------------------------------|------|------------------------------------------------------------|
| Algorithm Theory                                | 6    | 1 or 3                                                     |
| Cyber-Physical Systems – Discrete Models        | 6    | 1 or 3                                                     |
| Databases and Information Systems               | 6    | 1 or 3                                                     |
| Introduction to Embedded Systems                | 6    | 1 or 3                                                     |
| Machine Learning                                | 6    | 1 or 3                                                     |
| Computer Architecture                           | 6    | 1 or 3                                                     |
| Foundations of Artificial Intelligence          | 6    | 2                                                          |
| Image Processing and Computer Graphics          | 6    | 2                                                          |
| Software Engineering                            | 6    | 2                                                          |

# Elective Courses in Computer Science

You have to take courses up to at least 18 ECTS.

The maximum (if you do not take more than the bare minimum 18 ECTS anywhere else) would be 36 ECTS.

You can choose from

- Specialisation Courses in Computer Science (6 ECTS each)
- *And/or* up to 2 Seminars (3 ECTS each)
- *And/or* 1 Study project (18 ECTS)

*(Please be aware that you cannot massively surpass the 36 ECTS here or the 90 ECTS overall, so plan carefully if you intend to take the study project!)*

# Advanced Microsystems Engineering (MSE)

| Module<br>(take courses up to at least 18 ECTS)                                                                                                  | ECTS | Semester (recommended)<br>when starting in winter semester |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|
| Assembly and Packaging Technology                                                                                                                | 6    | 2                                                          |
| Micro-electronics                                                                                                                                | 6    | 1 or 3                                                     |
| Micro-mechanics                                                                                                                                  | 6    | 1 or 3                                                     |
| Micro-optics                                                                                                                                     | 6    | 1 or 3                                                     |
| Modelling and System Identification                                                                                                              | 6    | 1 or 3                                                     |
| MST Technologies and Processes                                                                                                                   | 6    | 1 or 3                                                     |
| Sensors                                                                                                                                          | 6    | 1 or 3                                                     |
| Signal Processing                                                                                                                                | 6    | 2                                                          |
| Probability and Statistics<br>(This <b>can't</b> be taken as part of the 18 mandatory credits,<br>only if you opt to do more ECTS in this area!) | 6    | 1 or 3                                                     |

# Concentration Areas in MSE

You have to **choose one area** and complete courses up to at least 18 ECTS.  
If you choose to take **more** than this, the surpassing courses **can** be from **another area**.

(The maximum would, again, be 36 ECTS, if you do no courses in any other area.)

The 4 Concentration Areas are:

- Circuits and Systems
- Biomedical Engineering
- Materials and Fabrication
- Photonics

# Customized Course Selection

## What it is:

Instead of completing some or all of the 18 „flexible“ credits by taking courses in one or more of these 4 areas, you can take some courses in the so-called Customized Course Selection.

Here, you can choose from

- Pass/fail courses (SL, *Studienleistungen*) from Computer Science or MSE (like lab courses in CS, Scientific Writing or Project Management in MSE)
- **One** language course (esp. German courses from **SLI** for international students) (*please note: **not** from the „Zentrum für Schlüsselqualifikationen“ / BOK area!*)
- Selected courses from other departments / faculties (*not in planner of studies – application to study advisor (me) required*)

# Customized Course Selection

## What it is *not*:

The Customized Course Selection is **NOT the name** for the 18 “flexible credits”! That seems to be a **common misunderstanding**. But Customized Course Selection is simply the name for these selection of pass/fail courses.

So, please don't ask the examination office or myself to „*move the MSE concentration course XY*“ or „*the lecture YZ from Elective Courses in Computer Science*“ **to** the CCS. Because that is **impossible**.  
***Courses have their defined area(s) and they stay where they are.***

*Be aware that the rules regarding the Customized Course Selection are different in the MSE and CS study programmes, when talking to other students or lecturers!*

# Master Thesis

- Master thesis (27 ECTS) graded
- Colloquium (= Presentation / Defense) (3 ECTS) graded
- Admission to thesis: at least **72 ECTS** credits  
*(plus conditional courses from admission, if applicable)*
- Duration: 6 months

More information:

<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/thesis>

# Optional specialization

You can choose to do a specialisation in your study programme (which will be shown on the final documents).

There are 6 specialisations available:

- Artificial Intelligence (AI) (*courses see website*)
- Cyber-Physical Systems (CPS) (*courses see website*)
- Circuits and Systems (i.e. the MSE Concentration)
- Materials and Fabrication (i.e. the MSE Concentration)
- Biomedical Engineering (i.e. the MSE Concentration)
- Photonics (i.e. the MSE Concentration)

The requirements are:

- You have to take courses with **at least 30 ECTS** from the according specialisation category  
(please note: study project in C. S., seminars or lab courses in C.S. do not count for AI or CPS)
- You have to do a **Master Thesis** with a related topic

30 ECTS

**Master Thesis**  
(30 ECTS)**Customized Course Selection**  
German Language Course (6 ECTS)

18 ECTS

**Essential Lectures in C.S.**Computer Architecture (6 ECTS)  
CPS – Discrete Models ( 6 ECTS)  
Foundations of AI (6 ECTS)

18 ECTS

**Advanced MSE**Micro-Electronics (6 ECTS)  
Sensors (6 ECTS)  
Modelling and System Id. (6 ECTS)

18 ECTS

**Elective Courses in C.S.**Foundations of Deep Learn. (6 ECTS)  
Test and Reliability (6 ECTS)  
Wearable and Implant. Comp.(6 ECTS)**Elective Courses in C.S.**  
Computer Vision (6 ECTS)

18 ECTS

**Conc. MSE (Circ. & Syst.)**Energy Efficient Power Elec. (6 ECTS)  
Microcontroller Tech. Lab (3 ECTS)  
Numerical Optimization (6 ECTS)  
RF- and Microwave Devices and  
Circuits (3 ECTS)**Conc. MSE (Circ. & Syst.)**RF- and Microwave Circuits and  
Systems (3 ECTS)**Conc. MSE (Mat. & Fabric.)**

Clean room Lab for Eng. (3 ECTS)

18 ECTS remaining to be distributed in...

# Administrative things



# Some practical advice and general facts

- Most courses are offered every other semester (i.e. once a year).  
Some can be held more irregularly; should be mentioned in the module handbook.  
(see HlSinOne or PDF)
- Overlapping courses...  
With the amount of courses and the flexible curriculum, this just happens.  
Basically: Find a way to deal with it!  
(Meaning: Choose one course for this semester, do the other one in year;  
or check for lecture recordings, or cooperate with co-students...)
- Be aware that you might need to adapt your original study plan!  
(*Have a plan A, B and C...*)

# Some practical advice and general facts

- Usually no dependencies regarding order of courses
  - Nevertheless, check with lecturers for appropriate combinations or recommended order of courses
- Most prerequisites stated in the course catalog are recommendations, they are not mandatory; well, a few of them are...  
Just read the information given in the description!

# Conditional admission: What does this mean?

- Conditions have to be fulfilled **in addition** to the normal Master's curriculum → likely to extend your study time
- You have to complete the required modules by the end of the second semester.  
**They should be your top priorities!**  
(Especially in case of course collisions/overlaps)
- You will be **automatically registered for these courses** as well as **exams**. If you should decide **not** to take the exam in the intended semester (directly after the course), you have to contact the examination office to de-register.
- **Exams** required for conditional admission **can only be repeated once**.

# Advice for your next steps

- Study the course catalog / planner of studies (*What courses are offered right now?*)
- Check out a few more courses than you intend to complete in the given semester
  - *Go to the lectures for about 2-3 weeks and then decide which courses to continue, de-register from those you don't want to pursue*
- Register (via HISinOne → “Booking of courses”) for the courses you want to take as soon as possible
- Information on dates and deadlines for course booking:  
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates>  
→ Booking deadlines for Bachelor and Master courses
- **Read the official exam regulations!**  
(= *terms and conditions of your study programme*)  
[https://www.tf.uni-freiburg.de/bilder/studium\\_lehre/englische-poen/exam-regulations-msc-ese-po-2021](https://www.tf.uni-freiburg.de/bilder/studium_lehre/englische-poen/exam-regulations-msc-ese-po-2021)

# Registering for/ Booking of / Enrolling in courses

- Have a look at your **Planner of studies** <https://campus.uni-freiburg.de>
- Follow instructions from the following explanation / slides
- If you have questions or made a mistake while booking:  
**Contact** Ms. Moses in the Dean's office: [moses@tf.uni-freiburg.de](mailto:moses@tf.uni-freiburg.de) or myself  
*(Screenshots are really helpful)*

Be aware: **Different course types have different deadlines!**

(See <https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates>)

→ Booking deadlines and seat allocation for Bachelor and Master courses)

If you forgot to book a course:

- Contact the lecturer and ask if there are still seats available and if it generally makes sense to start late
- The examination office **can't** help you with the booking of courses!

# HISinOne Demo: Login and Planner of Studies

- Log in to <https://campus.uni-freiburg.de/>

The screenshot displays the HISinOne Demo interface. At the top, the header bar includes the university logo, a search bar, and navigation links. The 'My Studies' tab is highlighted. Below the header, the breadcrumb trail shows 'Home > My Studies > Planner of studies with Module plan'. The main content area is titled 'Planner of studies with Module plan Master of Science, Embedded Systems Engineering, Hauptfach, PO 2021'. It features a 'Show Module plan' button and a 'Printview' button. The semester is set to 'winter semester 2025'. There are filters for 'Courses' and 'Exams, non-graded works', both with 'All' selected. A search bar is present for the course catalog. The bottom section shows a tree structure of examination regulations, with the 'Master of Science/M.Sc.' program selected, leading to a list of modules including '11LE50KT-9991-MSc-787-2021 | ECTS Credit Account Master of Science in Embedded Systems Engineering (PO-Version 2021)' and '11LE50KT-9991-MSc-787-2021-MM | Mastermodul / Master Module'.

universität freiburg Demo - HISinOne

Home My Studies Studies offered Organisation Service Help

You are here: Home > My Studies > Planner of studies with Module plan

Planner of studies with Module plan Master of Science, Embedded Systems Engineering, Hauptfach, PO 2021

Show Module plan Printview

Semester: winter semester 2025

Courses: ☒ All ☐ None ☐ Only organized

Exams, non-graded works: ☒ All ☐ None ☐ Only organized

Search in course catalog

Expand all Collapse all

| Structure of examination regulations All subject related semesters                                                   | Actions | Status |
|----------------------------------------------------------------------------------------------------------------------|---------|--------|
| 11LE50PO-MSc-787-2021   Embedded Systems Engineering, M.Sc., PO 2021                                                 |         |        |
| 11LE50KT-9000-MSc-787-2021   Master of Science/M.Sc.                                                                 |         |        |
| 11LE50KT-8609-MSc-787-2021   Preliminary average grade M.Sc. Embedded Systems Engineering (PO-Version 2021)          |         |        |
| 11LE50KT-9991-MSc-787-2021   ECTS Credit Account Master of Science in Embedded Systems Engineering (PO-Version 2021) |         |        |
| 11LE50KT-9991-MSc-787-2021-MM   Mastermodul / Master Module                                                          |         |        |
| 11LE50KT-MSc-787-2021-CS   Informatik   Computer Science                                                             |         |        |
| 11LE50KT-MSc-787-2021-MSE   Microsystems Engineering                                                                 |         |        |

# HISinOne Demo: Planner of Studies – Different views

- Use the correct view: Examination regulations

Home My Studies Studies offered Organisation Service Help

You are here: Home > My Studies > [Planner of studies with Module plan](#)

### Planner of studies with Module plan Master of Science, Embedded Systems Engineering, Hauptfach, PO 2021

 Show examination regulations  Printview

☒ Original Module plan ☒ My modules ☐ Alternate semester

| Semester 1<br>ws 2025/26                                                                                                                                                                                              | Semester 2<br>ss 2026                                                                                                                                                                                               | Semester 3<br>ws 2026/27                                                                                                                                                                                               | Semester 4<br>ss 2027                                                                                                                                                                                                   | Semester 5<br>ws 2027/28                                                                                                                                                                                              |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <br> Micro-electronics<br>-/6                       | <br> Assembly and packaging technolo<br>-/6       | <br> Selected Problems in Biosignal Pri<br>-/3       | <br> Fortgeschrittene Programmierung<br>-/6       | <br> Einführung in die Kryptographie/Int<br>-/6 |      |
| <br> Micro-optics<br>-/6                        | <br> Biomedical Instrumentation I<br>-/3      | <br> Biomedical Instrumentation - Labo<br>-/3    | <br> Nano Photonics - Optical manipula<br>-/6 |                                                                                                                                                                                                                       |      |
| <br> Micromechanics<br>-/6                      | <br> Signal Processing<br>-/6                 | <br> Biomedical Instrumentation II<br>-/3        | <br> Optical MEMS<br>-/3                      |                                                                                                                                                                                                                       |      |
| <br> MST Technologies and Processes<br>-/6      | <br> BioMEMS<br>-/3                           | <br> Biophysics of cardiac function and<br>-/6   | <br> Optoelectronics<br>-/4                   |                                                                                                                                                                                                                       |      |
| <br> Modelling and System Identification<br>-/6 | <br> Ethical Aspects of Neurotechnolog<br>-/3 | <br> Biointerfaces I - Basics for Bioanal<br>-/3 | <br> Mastermodul / Master Module<br>-/30      |                                                                                                                                                                                                                       | 2025 |

# HISinOne Demo:

## Examination regulations structure

| Structure of examination regulations All subject related semesters                  |                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |  11LE50PO-MSc-787-2021   Embedded Systems Engineering, M.Sc., PO 2021                                                 |
|    |  11LE50KT-9000-MSc-787-2021   Master of Science/M.Sc.                                                                 |
|    |  11LE50KT-8609-MSc-787-2021   Preliminary average grade M.Sc. Embedded Systems Engineering (PO-Version 2021)          |
|    |  11LE50KT-9991-MSc-787-2021   ECTS Credit Account Master of Science in Embedded Systems Engineering (PO-Version 2021) |
|    |  <a href="#">11LE50KT-9991-MSc-787-2021-MM   Mastermodul / Master Module</a>                                          |
|    |  11LE50KT-MSc-787-2021-CS   Informatik   Computer Science                                                             |
|    |  11LE50KT-MSc-787-2021-EssentialCS   Essential Lectures in Computer Science                                           |
|    |  11LE50KT-MSc-787-2021-ElectiveCS   Elective Courses in Computer Science                                              |
|    |  11LE50KT-MSc-787-2021-MSE   Microsystems Engineering                                                                 |
|   |  11LE50KT-MSc-787-2021-AdvancedMSE   Advanced Microsystems Engineering                                               |
|  |  11LE50KT-MSc-787-2021-ConcentrationsMSE   Microsystems Engineering Concentrations Area                             |
|  |  11LE50KT-MSc-787-2021-MSE-CaS   Circuits and Systems                                                               |
|  |  11LE50KT-MSc-787-2021-MSE-MaF   Materials and Fabrication                                                          |
|  |  11LE50KT-MSc-787-2021-MSE-BE   Biomedical Engineering                                                              |
|  |  11LE50KT-MSc-787-2021-MSE-P   Photonics                                                                            |
|  |  11LE50KT-MSc-787-2021-CCS   Customized Course Selection                                                            |

# HISinOne Demo: Module – Courses – Assessments

|                                                                                                                                                                                                                                                       |                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▶  <a href="#">11LE50KT-9991-MSc-787-2021-MM   Mastermodul / Master Module</a>                                                                                       |                                                                                                                                                                               |
| ▼  <a href="#">11LE50KT-MSc-787-2021-CS   Informatik   Computer Science</a>                                                                                          | Your actual status: Coursework submitted/registered<br>Term of the examination: ws 2025/26                                                                                    |
| ▼  <a href="#">11LE50KT-MSc-787-2021-EssentialCS   Essential Lectures in Computer Science</a>                                                                        | Your actual status: Coursework submitted/registered<br>Term of the examination: ws 2025/26                                                                                    |
| ▶  <a href="#">11LE13MO-2010 ESE PO 2021   Algorithms Theory</a>                                                                                                     |                                                                                                                                                                               |
| ▼  <a href="#">11LE13MO-2020 ESE PO 2021   Computer Architecture</a>                                                                                                 |                                                                                                                                                                               |
| ▶  <a href="#">11LE13V-2020   Rechnerarchitektur / Computer Architecture - Lecture</a>   lecture course                                                              |                                                                                            |
| ▶  <a href="#">11LE13Ü-2020   Rechnerarchitektur / Computer Architecture - Exercises</a>   exercise course                                                           |                                                                                            |
| ▶  <a href="#">11LE13PL-2020   Rechnerarchitektur / Computer Architecture - Examination</a>                                                                          |                                                                                            |
| ▼  <a href="#">11LE13MO-2070 ESE PO 2021   Cyber-Physical Systems – Discrete Models</a>                                                                              | Your actual status: Coursework submitted/registered<br>Term of the examination: ws 2025/26                                                                                    |
| ▶  <a href="#">11LE13V-2070   Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - Lecture</a>   lecture course              |  Your actual status: confirmation of participation<br>Term of the examination: ws 2025/26 |
| ▶  <a href="#">11LE13Ü-2070   Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - Exercises</a>   exercise course (1 of 2) |                                                                                          |
| ▶  <a href="#">11LE13SL-2070   Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - course work</a>                         |                                                                                          |
| ▶  <a href="#">11LE13PL-2070   Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - Examination</a>                         |                                                                                          |

# HISinOne Demo:

## Registration procedure for seminar or project

- Check out how to book seminars and how to register for projects!

<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/booking-of-pro-seminars-in-computer-science>

<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/registering-for-projects>

|   |                                                                  |   |
|---|------------------------------------------------------------------|---|
| ▶ | 11LE13MO-1223 ESE PO 2021   Verification of Digital Circuits     |   |
| ▶ | 11LE13MO-1402_PO 2020   Wearable and Implantable Computing (WIC) |   |
| ▼ | 11LE50MO-Seminar 1   Seminar 1                                   |   |
| ▶ | 11LE13VG-Seminar   VG Seminar 1 M (1 of 7)                       |   |
| ● | 11LE13SL-Seminar 1   Seminar 1 - course work                     | 🕒 |
| ● | 11LE13PL-Seminar 1   Seminar 1 - Examination                     | 🕒 |
| ▶ | 11LE13MO-Seminar 2   Seminar 2                                   |   |
| ▼ | 11LE50MO-8140 ESE PO 2021   Studienprojekt MSc ESE               |   |
| ▶ | 11LE50VG-8140 ESE PO 2021   Studienprojekt MSc ESE               |   |

# HISinOne Demo: Advanced MSE and Concentrations

|   |                                                                                          |
|---|------------------------------------------------------------------------------------------|
| ▼ | 🔗 11LE50KT-MSc-787-2021-MSE   Microsystems Engineering                                   |
| ▼ | 🔗 11LE50KT-MSc-787-2021-AdvancedMSE   Advanced Microsystems Engineering                  |
| ▶ | 🔗 11LE50MO-7700/986 ESE PO 2021   Assembly and packaging technology                      |
| ▶ | 🔗 11LE50MO-7050/986 ESE PO 2021   Micro-electronics                                      |
| ▶ | 🔗 11LE50MO-7100/986 ESE PO 2021   Micromechanics                                         |
| ▶ | 🔗 11LE50MO-7600/986 ESE PO 2021   Micro-optics                                           |
| ▶ | 🔗 11LE50MO-2080 ESE PO 2021   Modelling and System Identification                        |
| ▶ | 🔗 11LE50MO-7250 ESE PO 2021   MST Technologies and Processes                             |
| ▶ | 🔗 11LE50MO-6100 ESE PO 2021   Probability and statistics                                 |
| ▶ | 🔗 11LE50MO-7500/986 ESE PO 2021   Sensors                                                |
| ▶ | 🔗 11LE50MO-7400 ESE PO 2021   Signal Processing                                          |
| ▼ | 🔗 11LE50KT-MSc-787-2021-ConcentrationsMSE   Microsystems Engineering Concentrations Area |
| ▶ | 🔗 11LE50KT-MSc-787-2021-MSE-CaS   Circuits and Systems                                   |
| ▶ | 🔗 11LE50KT-MSc-787-2021-MSE-MaF   Materials and Fabrication                              |
| ▶ | 🔗 11LE50KT-MSc-787-2021-MSE-BE   Biomedical Engineering                                  |
| ▶ | 🔗 11LE50KT-MSc-787-2021-MSE-P   Photonics                                                |

# HISinOne Demo: Customized Course Selection

- Optional; only courses completing with pass/fail assessments

The screenshot displays a list of courses in the HISinOne system. A red bracket highlights the 'Customized Course Selection' section, which includes the following courses:

- 11LE50KT-MSc-787-2021-CCS | Customized Course Selection
- 11LE50MO-7003 ESE PO 2021 | MST Design Lab I for Microsystems Engineering
- 11LE50MO-5803 ESE PO 2021 | Project management for engineers
- 11LE50MO-5801 ESE PO 2021 | Scientific writing and presentation
- 11LE13MO-7110-1 ESE PO 2021 | Praktikum Informatik 1
- 11LE13MO-7110-2 ESE PO 2021 | Praktikum Informatik 2
- 11LE13MO-7110-3 ESE PO 2021 | Praktikum Informatik 3
- 11LE50MO-5609 ESE PO 2021 | Kompetenzen für die erfolgreiche Abschlussarbeit
- 11LE13MO-Sprachkurs ESE PO 2021 | Language Course SLI Recognition

Below the highlighted section, there is a section for 'Courses offered in other departments of the University' (11LE50KT-MSc-787-2021-CCS-FWB), which includes:

- 11LE50KT-MSc-787-2021-CCS-FWB SSE | Sustainable Systems Engineering

At the bottom, there is a section for 'assessments outside the master's examination' (11LE50KT-ZL-MSc-787-2021).

# HISinOne Demo: Multi-connected Elements

- Green and red arrows? Don't panic!

Upcoming update for  
Planner of studies will not  
have this anymore!  
It should look better and be  
more user friendly as well...

11LE50KT-MSc-787-2021-ConcentrationsMSE | Microsystems Engineering Concentrations Area

11LE50KT-MSc-787-2021-MSE-CaS | Circuits and Systems

Multi-connected Elements (Please click on the respective heading to display the respective element):

- 11LE13MO-1404 ESE PO 2021 | Embedded Computing Entrepreneurship (2ES) 6.0 ECTS
- 11LE50MO-5249 ESE PO 2021 | Numerical Optimal Control in Science and Engineering 6.0 ECTS
- 11LE50MO-5243 ESE PO 2021 | Numerical Optimization 6.0 ECTS
- 11LE13MO-1402\_PO 2020 | Wearable and Implantable Computing (WIC) 6.0 ECTS

11LE50MO-5202 ESE PO 2021 | Analog CMOS Circuit Design

11LE50MO-5268 ESE PO 2021 | Angewandte Sensorschaltungstechnik

11LE50MO-5290 PO 2021 | Basics of Applied Mathematics

# HISinOne Demo:

## Other useful menu items

### My Studies

#### Planner of studies with Module plan

Remark modules, enroll lectures and sign in for examinations

#### Schedule

See events and examinations in your personal schedule

#### My course enrollments and exam registrations

Get an overview of your examinations and courses

#### My achievements

Get an overview of your achievements, i.e. examinations or visited lectures.

#### Import results with EMREX

Imports achievements completed at another university.

#### module handbook

View your module manual(s)

#### Student Service

Here you can create your confirmations of study, find out about your re-registration status, semester fees due or your payments, make changes to your contact details or create requests and notifications of change.

#### Course plan

Course plan, filled with my semester and course(s) of study.

# HISinOne Demo:

## Course catalogue for university overall

The screenshot displays the HISinOne web application interface. At the top, a navigation bar includes links for Home, My Studies, Studies offered (highlighted with a red arrow), Organisation, Service, and Help. Below the navigation bar, a dropdown menu for 'Studies offered' is open, listing various options. The option 'Show university course catalog' is highlighted with a green arrow. To the left of the dropdown, there is a section for 'Show university course catalog' and a 'Choose term' dropdown menu currently set to 'winter semester 2025/2026'. Below these, the 'University course catalog' section is visible, featuring a blue header 'Course catalog of the University of Freiburg'. Under this header, there is a link for 'Course catalog winter semester 2025/2026' and a link for 'Semester Dates and Teaching Periods'. A list of faculties follows, each with a right-pointing arrow and a small icon: Faculty of Theology, Faculty of Law, Faculty of Economics and Behavioural Sciences, Faculty of Medicine, Faculty of Philology, and Faculty of Humanities.

Home My Studies **Studies offered** Organisation Service Help

You are here: [Home](#) > [Studies](#)

Search for courses

Search for special events

Show current courses

Show university course catalog

Module descriptions

Show course of studies schedule

Application

Application procedure state examination international

Application procedure lottery procedure

Choose term

Term

winter semester 2025/2026

University course catalog

Course catalog of the University of Freiburg

Course catalog winter semester 2025/2026

[Semester Dates and Teaching Periods](#)

Faculty of Theology

Faculty of Law

Faculty of Economics and Behavioural Sciences

Faculty of Medicine

Faculty of Philology

Faculty of Humanities

# Rules regarding examinations

More details will be offered by the examination office team  
in a presentation in a few weeks.  
You'll receive an invitation e-mail in time...

# Registration for exams / graded assessments (PL)

- It's a second, independent step from booking the course.  
It's **not** done **automatically**!
- The procedure is *similar* to booking the courses. For a how-to, see <https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/examinations>  
**Deadlines** for the registration (and de-registration) for exams are also mentioned on this website.
- Without registering for an exam you are not allowed to take it, so **do not forget!**
- To make sure you are correctly registered, we recommend saving/printing the pdf of the in HISinOne  
→ My studies → My course enrollments and exam registrations

# How to proceed if you failed an exam

- Number of attempts are limited:
  - 2 attempts for every exam / graded assessment (if needed)
  - 2 oral or written exams can be attempted 3 times
- You are registered automatically for the repetition(s) and **cannot sign off!**
- Repetition exam will take place in the **very next semester.**
- You can replace one failed exam (oral or written) from a course in CS or MSE with another one; but it has to be done after the first failed attempt.  
*So: Either repeat or replace (once).*

# Improvement of a grade

- Repeating an exam that you have passed, to improve your mark, is possible in **one** module you did in your first year of studies here
- This rule applies only to written or oral exams (not other kinds like homework or presentations)
- You have to take the „repetition“ exam **directly in the following semester**
- The examination with the **better** grade will be considered official

# Missing an exam: Unexcused or authorized withdrawals

- If you do not attend an exam that you registered for, it counts as **failed**, unless you have a **valid excuse**.
- Valid excuses can be
  - Due to illness  
→ Doctor's note required, see <https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq>
  - Due to emergencies in family etc.  
(please contact examination office immediately)

# Intellectual honesty / plagiarism

- Plagiarism is:
  - Using someone else's texts, pictures, reports, data, solutions, whatever....
  - ... without citing the source
- Sources include:
  - Books, the internet, colleagues, ...
- To make it clear:  
Plagiarism is illegal!  
It is cheating!

What about AI like ChatGPT?  
→ If lecturers don't explain their rules about this, please ask them about this!  
Don't just assume it's fine to use, it might be seen as cheating!

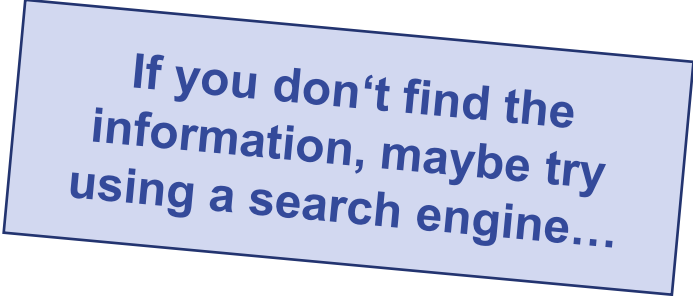
- The simple „if...then“ loop:
  - If you cheat (once)  
→ then you fail the course
  - If you cheat repeatedly (twice)  
→ then you are thrown out of the programme and your academic career is over
- Intellectual honesty is important!  
Don't pass off someone else's work as your own!

# Finding information and help



# Students are responsible to stay informed

- You are independent persons, expected to self-organize and self-motivate. We are no service establishment catering to all your needs.
- We provide the necessary information through different sources:
  - Websites
  - Introductory events
  - Official documents (like exam regulations)
  - Information e-mails



*If you don't find the  
information, maybe try  
using a search engine...*

**(Make sure to have access to your faculty user account and forward or use that e-mail address!)**

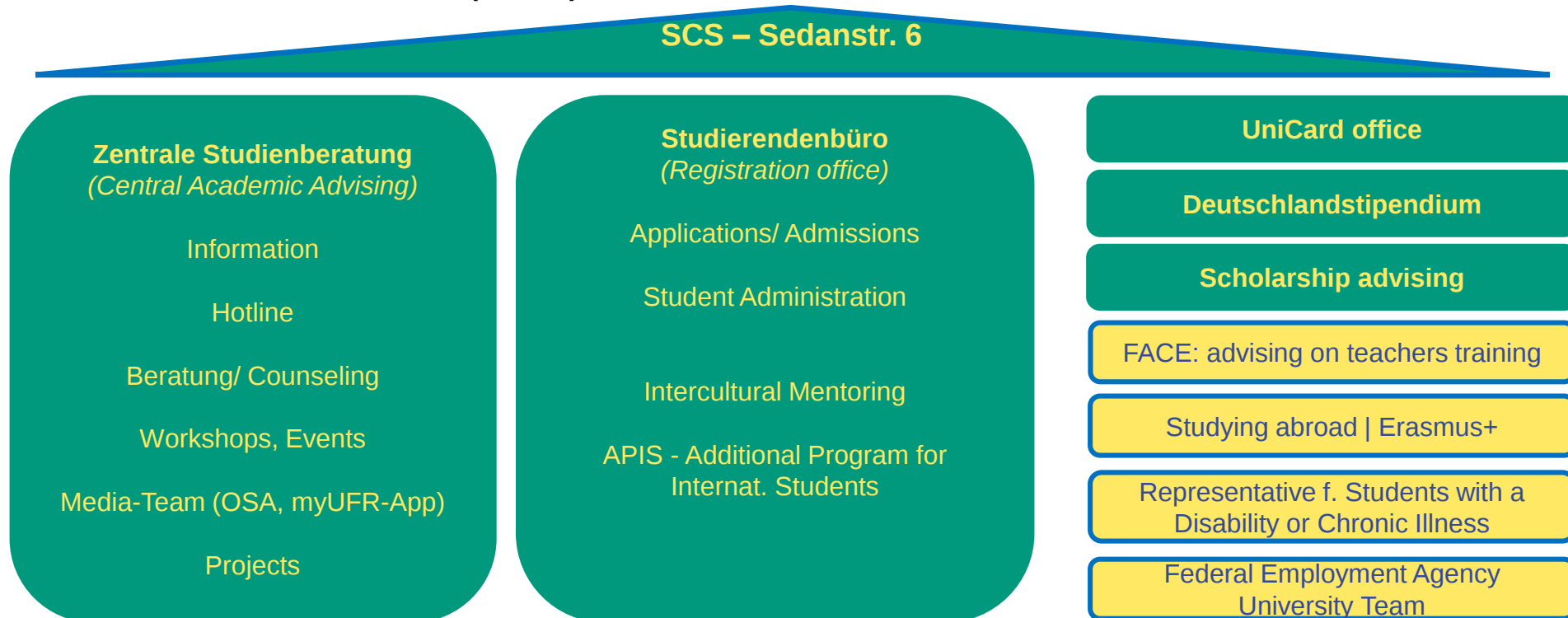
- Reading is essential! Please read! The whole text, all the lines in an email, the complete instructions in exercise or exam sheet...
- **„I did not know!“ is not an acceptable excuse!**

# Check out the information on our websites

- For new students:  
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/freshers-info>
- Dates and deadlines:  
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates>
- A to Z – Study FAQs (especially useful for information about examination related things):  
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq>
- Website for your study programme  
<https://www.tf.uni-freiburg.de/en/study-programs/embedded-systems-engineering/m-sc-embedded-systems-engineering>
- Contacts for advisory services at TF etc.:  
<https://www.tf.uni-freiburg.de/en/study-programs/counseling>

# Further contact points outside TF:

- SWFR (Housing, Financial Aid / Bafög, Social and **Psychotherapeutic Counselling...**)
- Student Service Center (SCS) in Sedanstraße 6



# Whom to ask about what?

- Programme related matters

## Lecturers/ Professors

e.g. thematic questions, literature and learning material etc.

## Programme coordinators / Study advisors

e.g. study planning, decisions, setting priorities, examination regulations, credits etc.

- General matters

## Registration office (in SCS)

e.g. advice for international students, preliminary certification by the university, issue of certificates for international students, questions about leave of absence and tuition fees etc.

→ <https://www.studium.uni-freiburg.de/en/student-services/registration-office>

## Central Academic Advising (in SCS)

e.g. motivation, reorientation, decision-making, learning process, study organisation, stress, crises, etc.

- Confidential, anonymous if necessary, open-ended
- If necessary, referral to other contacts (representatives for students with chronic illnesses/disabilities, psychotherapeutic counselling centre, employment agency, etc.)

→ [www.zsb.uni-freiburg.de](http://www.zsb.uni-freiburg.de)

# When writing an e-mail to an advisor or the examination office...

- Please do use a subject – preferably a sensible one
- Assume we do not know you, and we are not clairvoyant.  
So, please sign the email with your full name; your matriculation number can also be helpful, and it would be great if you mention your study programme...
- Use full names of professors, supervisors or lecturers  
(we are not on first name base with everyone at the faculty)
- Please write a new mail to the person you wish to contact.  
Don't "answer" to general information mails from us, if it's not a direct question about the content of that mail.
- If it is urgent, indicate this in the subject line! Our responses to mails not classified as urgent can take quite a while and we try to prioritize.

# Checklist of important things to remember:

- Set up your Faculty account correctly; **forward those emails!**
- Learn about and observe the various deadlines:  
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates>
- Register for ***all the elements (especially all the assessments)*** in a module you want to complete (not just in lectures, but also in seminars or lab courses)
- Know your exam regulations!
- Learn about registration for seminars and projects:  
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq>
- Re-enroll for the next semester  
<https://www.studium.uni-freiburg.de/en/student-services/registration>
- Contact someone when in need of help:  
<https://www.tf.uni-freiburg.de/en/study-programs/counseling>

According to the pool managers, the account information will be mailed to you next week.

# Have a good start!

And remember to meet your  
Campus tour guide  
here in this lecture hall!

