Media Informatics Master

Welcome!

Dr. Michael Schmitz
Dr. Pascal Lessel

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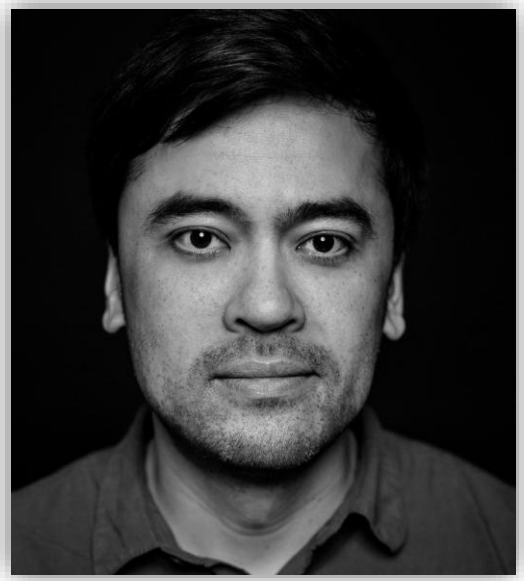
Introduction

Prof. Dr. Antonio Krüger

Chairman of the examination board of Media Informatics (MI)



Dr. Michael Schmitz

Contact person for questions related to the “Hochschule der Bildenden Künste Saar“ (Academy of Fine Arts - HBKsaar)

Dr. Pascal Lessel

Member of the examination board of MI & contact person for the MI internship

Agenda

General Information

Internship (2^{nd} Semester)

Thesis (4^{th} Semester)

HBKsaar Details

Agenda

General Information

Internship (2nd Semester)

Thesis (4th Semester)

HBKsaar Details

Relevant Locations

Saarland Informatics Campus

HBKsaar

Important Contacts

SIC Saarland Informatics Campus

Examination office
mei@ps-mint.uni-saarland.de

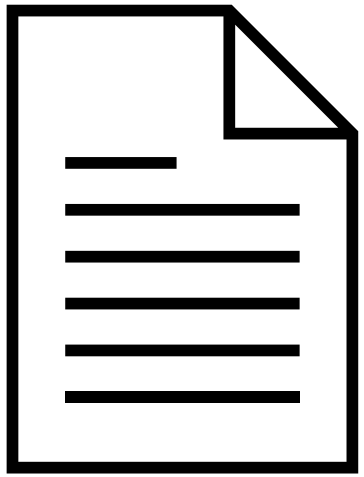
Study coordination
studium@cs.uni-saarland.de

First contact when you have questions regarding study documents, study organization and progress, examination related general questions, academic and personal problems, etc.

Important Documents

Study Regulations ● Examination Regulations ● Course Handbook

If you have a question, there is a high chance that it is answered in these documents



EN: https://www.ps-mint.uni-saarland.de/en/programmes/mei

DE: https://www.ps-mint.uni-saarland.de/de/programmes/mei

Remember to check the general regulations as well as the subject-specific regulation.

Overview Document

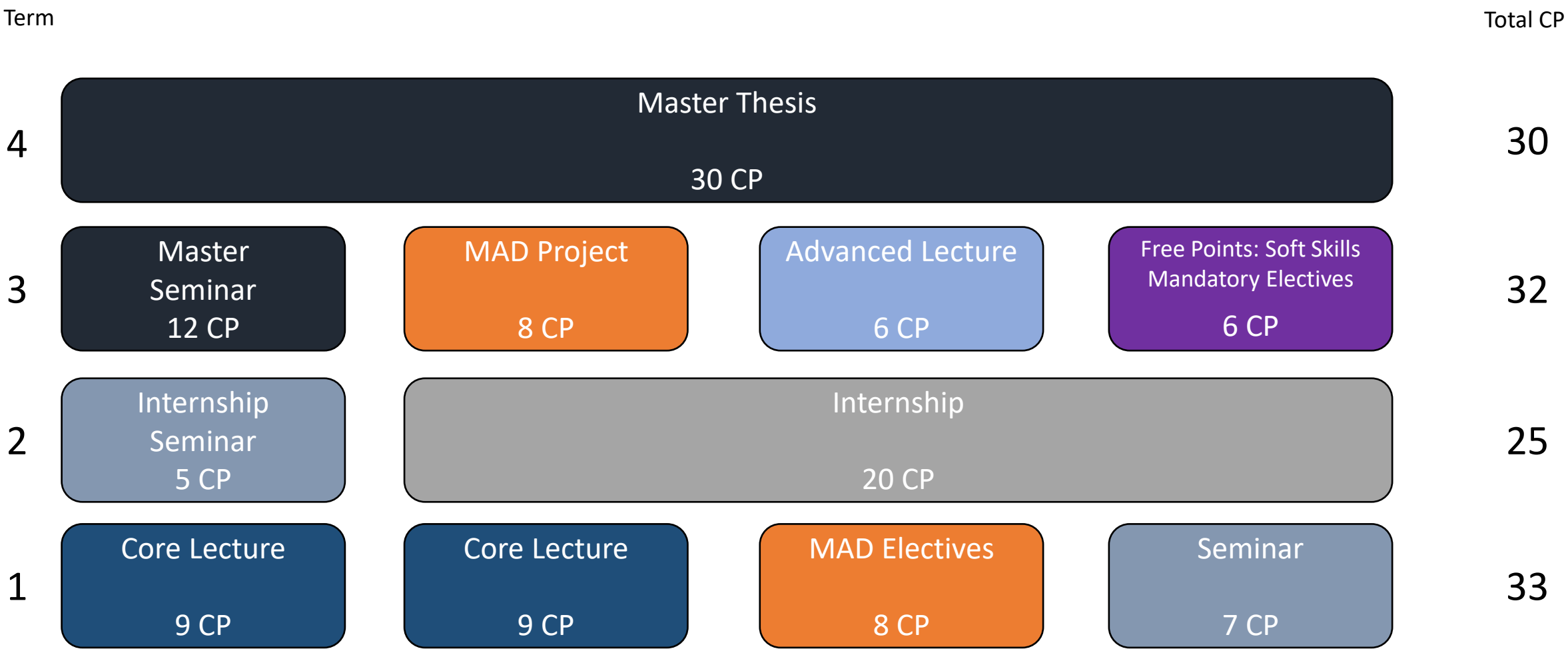
We provided you with an overview document (via email) with several useful links and pieces of information along with the invitation to this kickoff meeting.

If you missed it (e.g., you heard from this kickoff meeting only from another person), please write an email to pascal.lessel@dfki.de

1 CP = ~ 30h work

Example Study Plan

Consult your study regulations and module descriptions for more details



Bluish: Computer Science; **Orange**: HBKsaar, **Purple**: Many options possible (sometimes requires a-priori approval); **Grey**: Typically, non-academic (requires a-priori acceptance)

Flexibility: You can shift courses to other semesters, and you can select courses that fit your interests

Courses at UdS

- When creating your semester plan, try to aim for courses fitting to the MI regulations and summing up to around 30 CP per semester (or follow the example study plan).

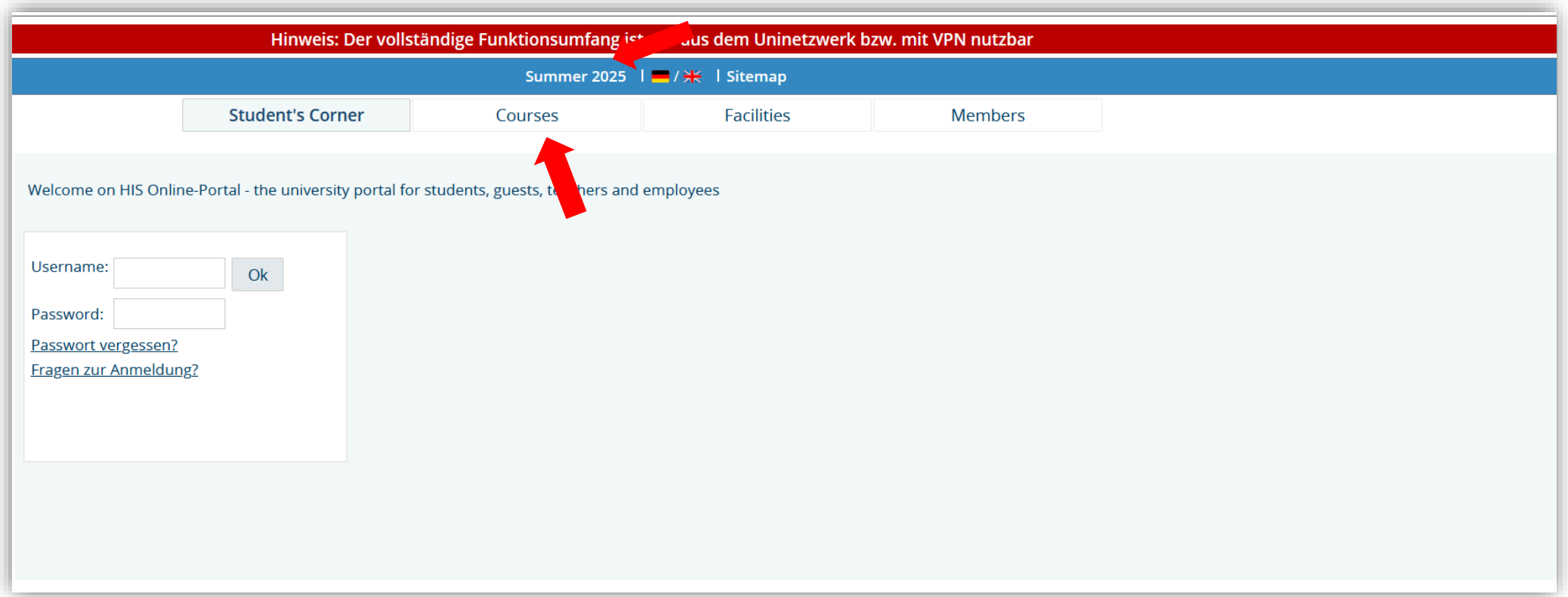
- For advance and core lectures: typically, you do not have to register beforehand. Please consult the corresponding lecture's web page and take care to attend the first lecture to receive all necessary organizational information.
  - Do not forget to register in time for the exams.

- For seminars you have to get a spot via the seminar distribution system first (see later slides).
  - Do not forget to register in time officially.

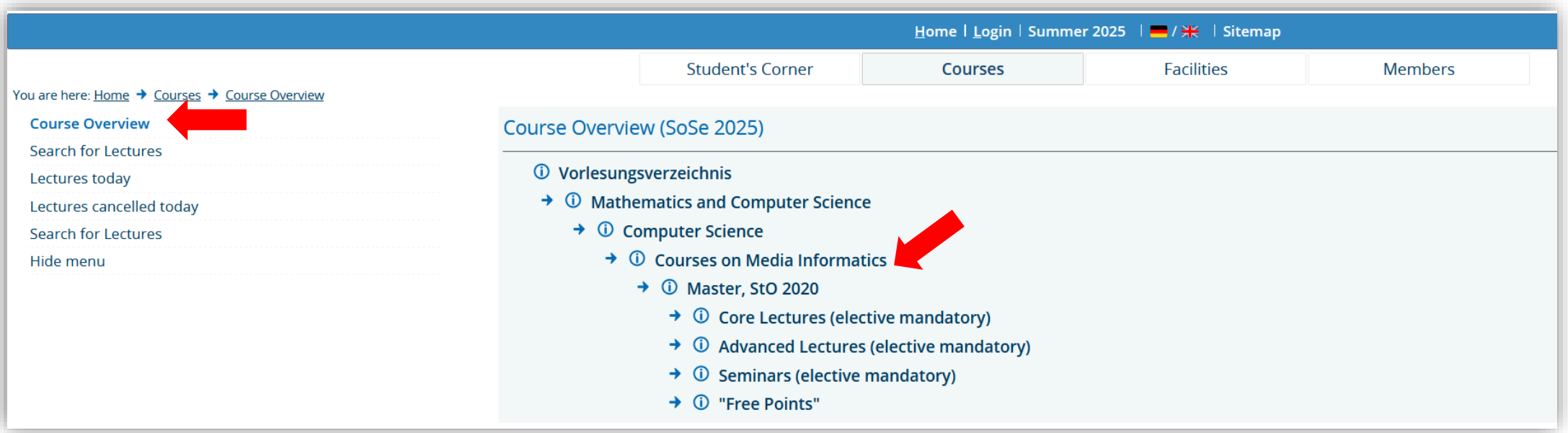
- Core lectures re-appear in a certain frequency. This, however, is not guaranteed for advance lectures and seminars. Often, they are given only once.

Course Overview UdS

https://www.lsf.uni-saarland.de

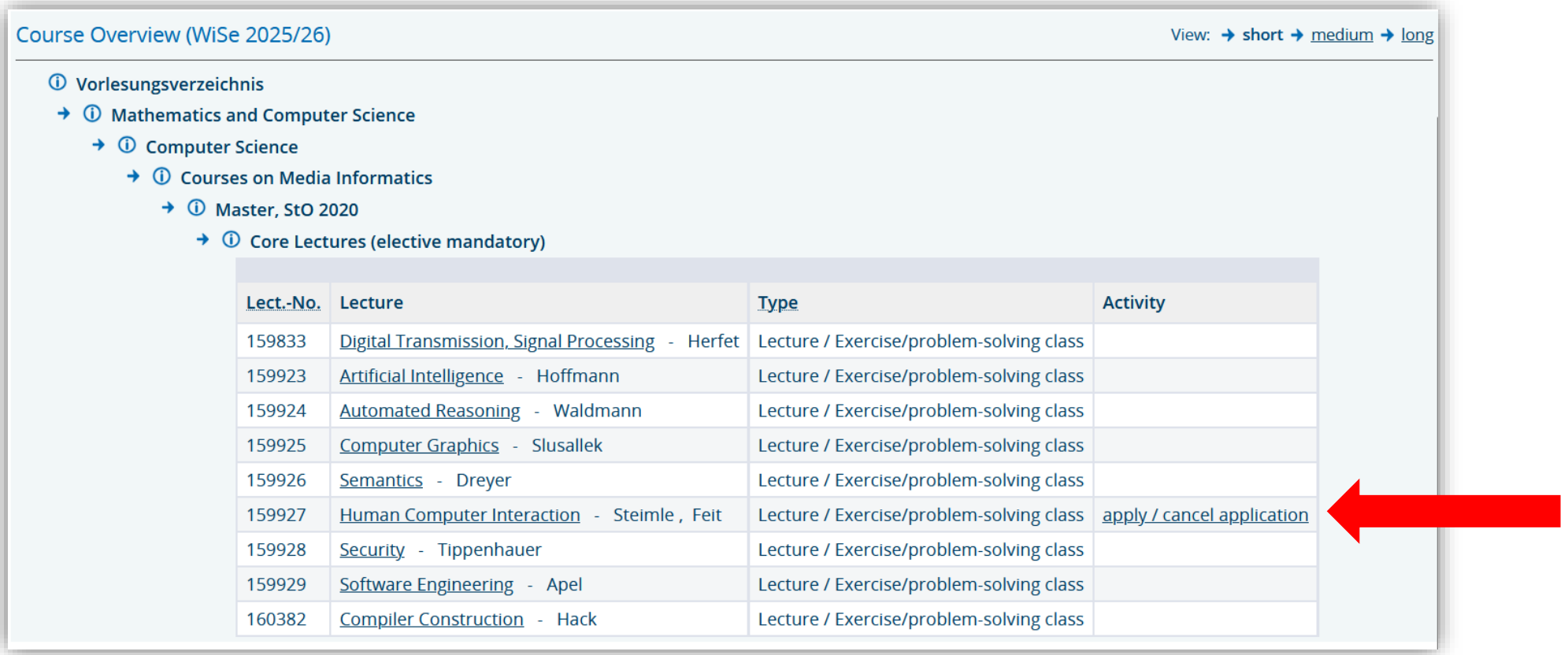


Course Overview UdS



Course Overview UdS

Example: Core Lectures – This semester:



Course Overview (WiSe 2025/26)

View: → short → medium → long

ⓘ Vorlesungsverzeichnis
→ ⓘ Mathematics and Computer Science
→ ⓘ Computer Science
→ ⓘ Courses on Media Informatics
→ ⓘ Master, StO 2020
→ ⓘ Core Lectures (elective mandatory)

Lect.-No.	Lecture	Type	Activity
159833	Digital Transmission, Signal Processing - Herfet	Lecture / Exercise/problem-solving class	
159923	Artificial Intelligence - Hoffmann	Lecture / Exercise/problem-solving class	
159924	Automated Reasoning - Waldmann	Lecture / Exercise/problem-solving class	
159925	Computer Graphics - Slusallek	Lecture / Exercise/problem-solving class	
159926	Semantics - Dreyer	Lecture / Exercise/problem-solving class	
159927	Human Computer Interaction - Steimle , Feit	Lecture / Exercise/problem-solving class	apply / cancel application
159928	Security - Tippenhauer	Lecture / Exercise/problem-solving class	
159929	Software Engineering - Apel	Lecture / Exercise/problem-solving class	
160382	Compiler Construction - Hack	Lecture / Exercise/problem-solving class	

Course Overview UdS

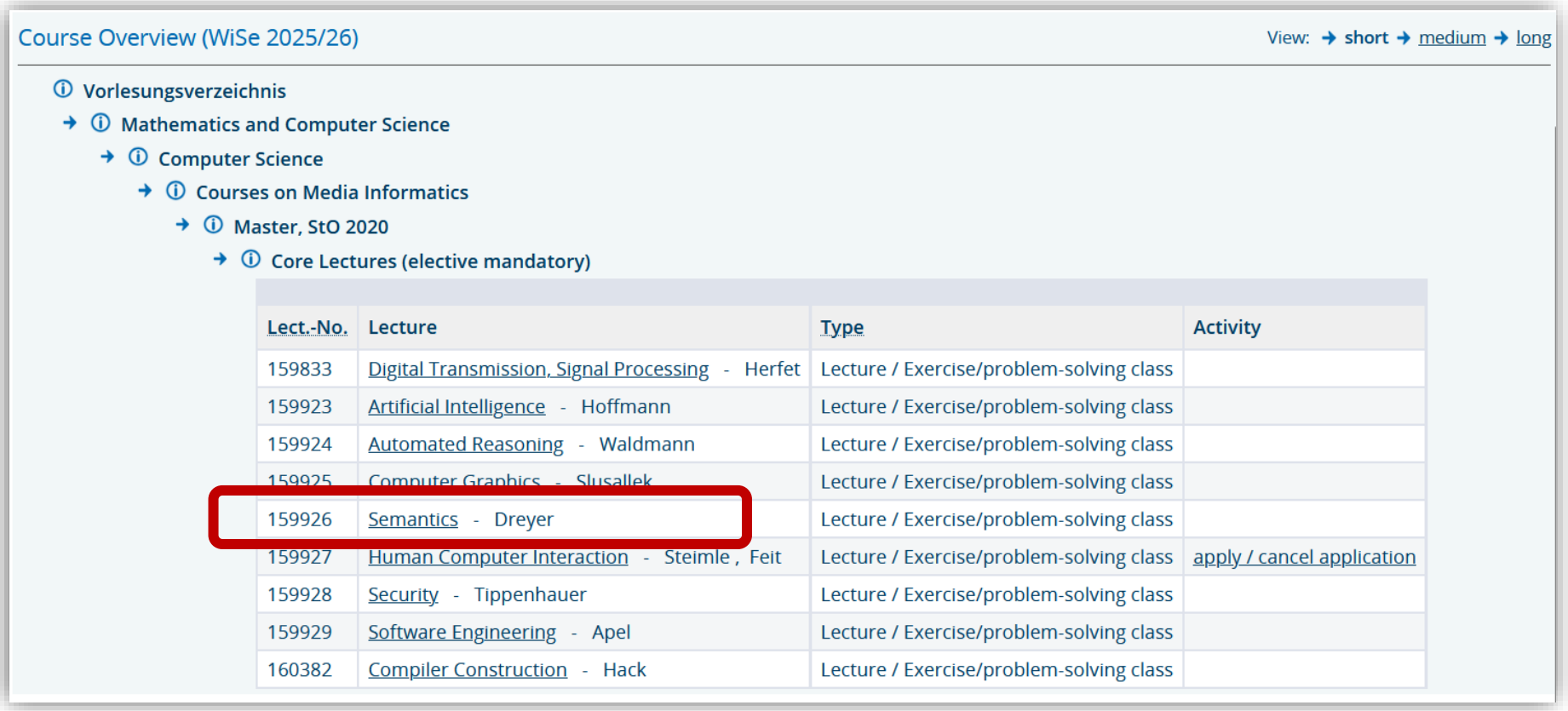
Example: Core Lectures – Last semester:

Lect.-No.	Lecture	Type	Activity
156438	Cryptography - Hanzlik , Döttling	Lecture / Exercise/problem-solving class	
156439	Introduction to Computational Logic - Smolka	Lecture / Exercise/problem-solving class	
156440	Data Networks - Feldmann	Lecture / Exercise/problem-solving class	
156441	Machine Learning - Ochs , Mitarbeiter/-innen des Lehrstuhls	Lecture / Exercise/problem-solving class	
156443	Image Processing and Computer Vision - Weickert , Mitarbeiter des Lehrstuhls	Online-Vorlesung	
156472	Discrete Optimization (before Optimization) - Karrenbauer	Lecture / Exercise/problem-solving class	
156473	Distributed Systems - Druschel , Garg	Lecture / Exercise/problem-solving class	
156772	Cyber-Physical Systems (former Embedded Systems) - Maggio	Lecture / Exercise/problem-solving class	
157331	Verification - Kaminski	Lecture / Exercise/problem-solving class	
157953	Convex Analysis and Optimization - Ochs , Mitarbeiter des Lehrstuhls	Lecture / Exercise/problem-solving class	

A lot of options are offered every year! Often core lectures are repeated in the same rotation (i.e., in summer terms).
Reminder: Advanced lectures and seminars are often only offered once.

Course Overview UdS

Click on entries to receive more information (e.g., lecture slots, CPs granted for course)



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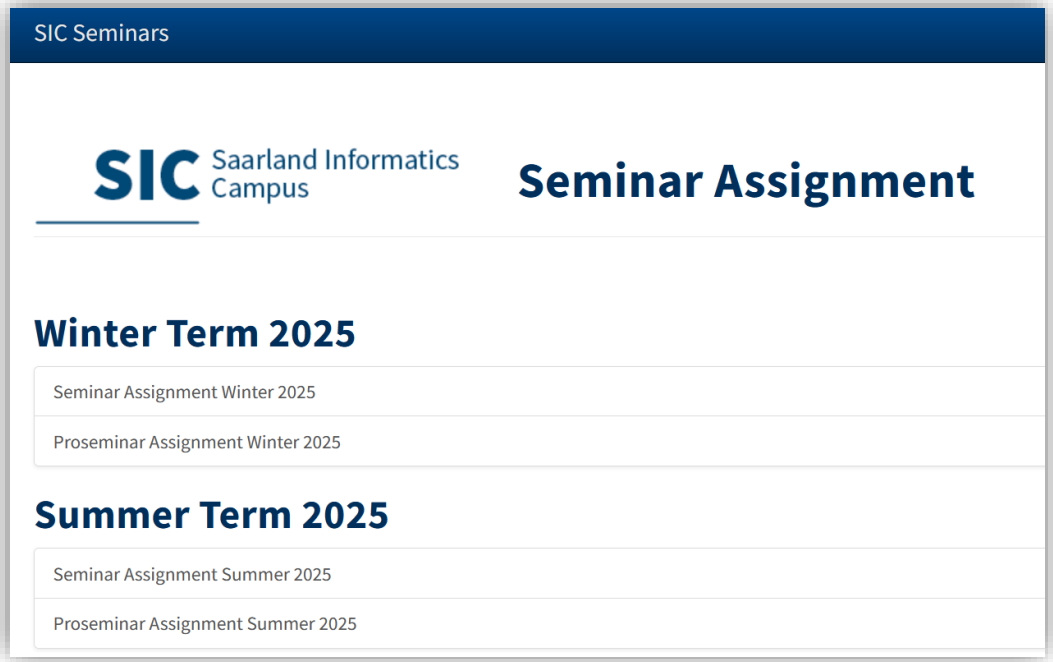
Often there is also a link to a web page with more information on the lecture – if not visit the chair's homepage (often they have a "teaching" subpage).

CS Internal Systems

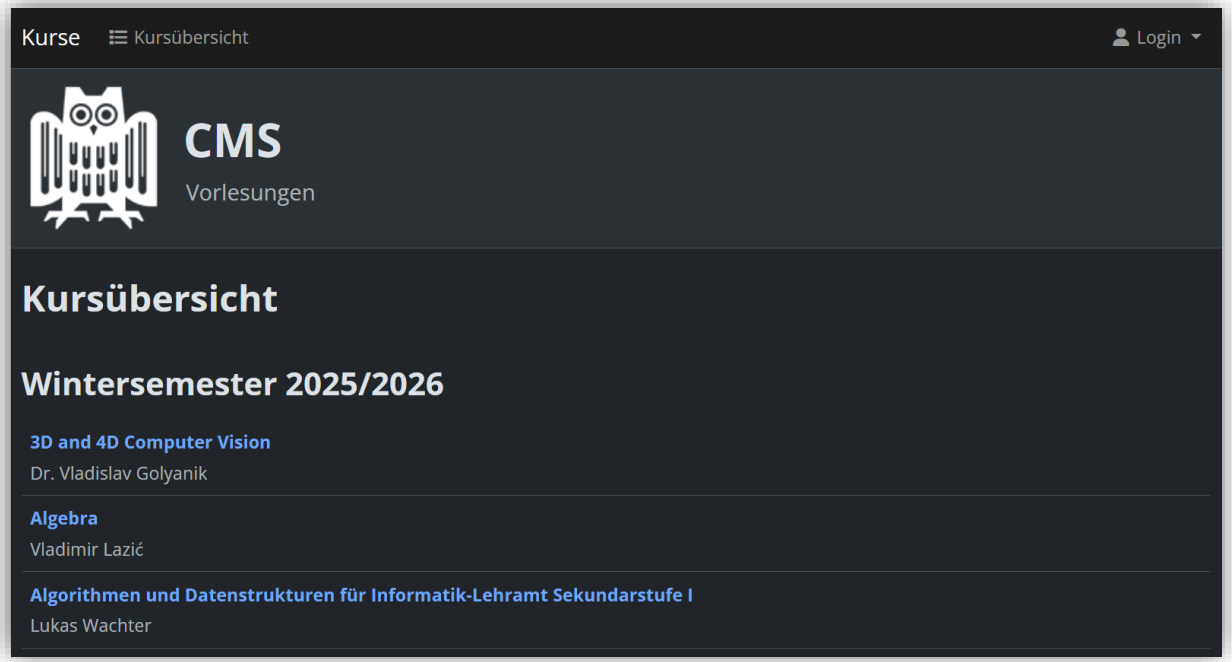
https://seminars.cs.uni-saarland.de



Internal seminar registration

Constraint solving to assign seminar spots

https://cms.sic.saarland



Management system for courses

Many, but not all CS courses use this

Seminar preference registration deadline: Oct 14th, 23:59 CET

Attention

You also have to officially register for the “Prüfungsleistung” (exam, seminar talks, etc.) to get credits.

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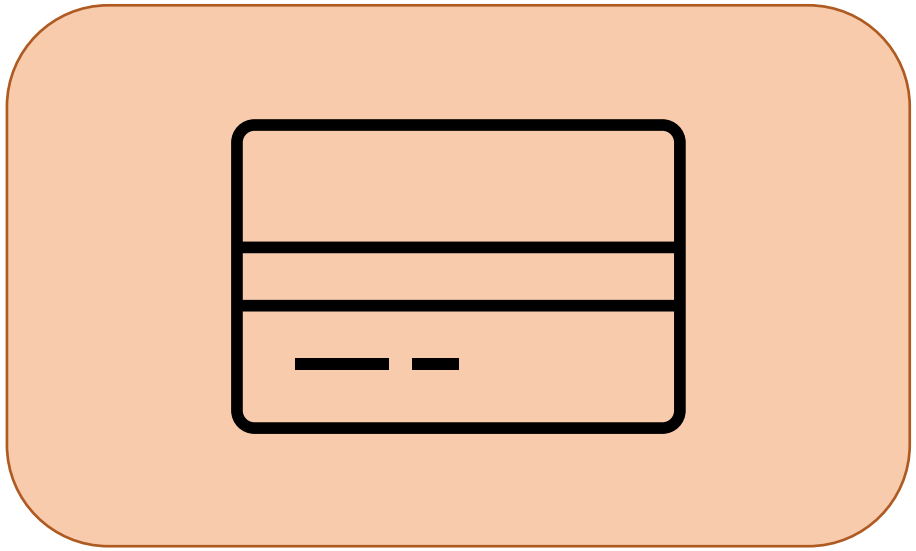
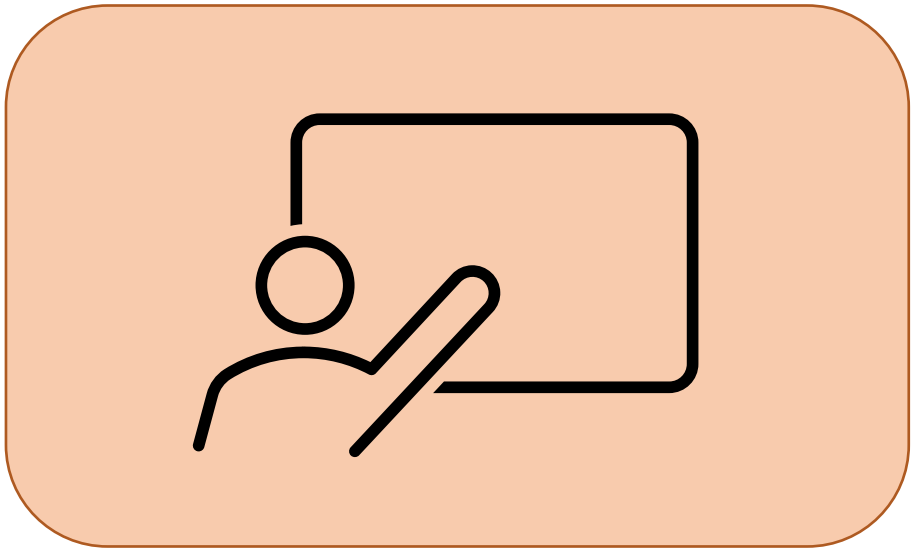
Thesis (4th Semester)

HBKsaar Details

Practical Phase

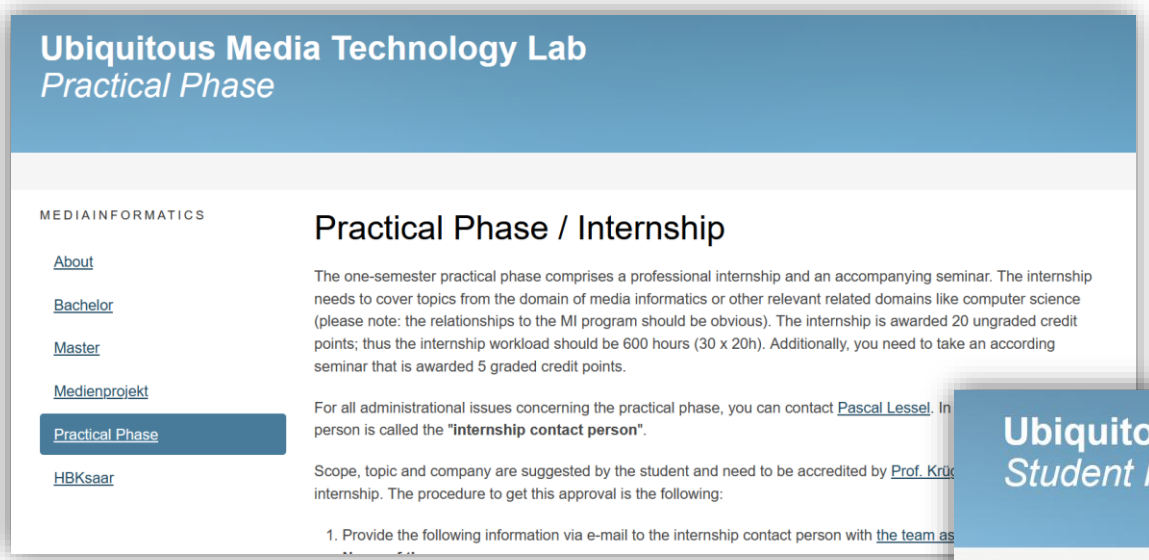


Internship in an external company for (at least) 600 working hours in total

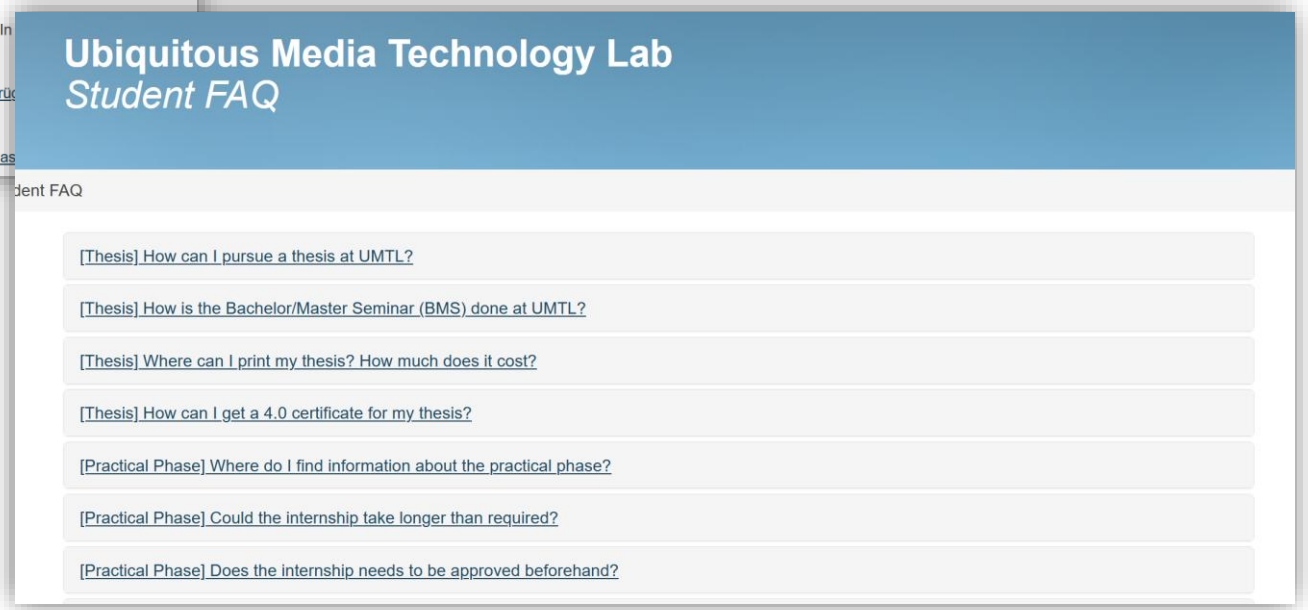


Attend 3 internship talks & give a talk about your internship

Practical Phase

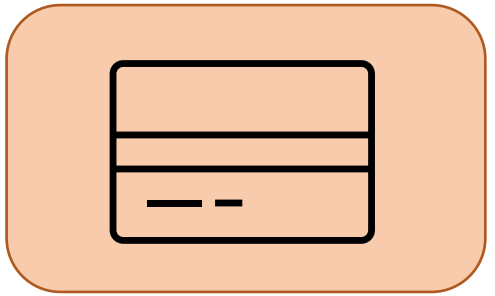


http://umtl.cs.uni-saarland.de/mediainformatics/practical-phase.html



http://umtl.cs.uni-saarland.de/faq

Practical Phase



Some companies that already accepted students in the past:

- anynines (formerly Avarteq)
- Centigrade
- Create 3D
- Deutsche Hochschule für Prävention und Gesundheitsmanagement (DHfPG)
- Dialogika
- Didactic Innovations
- Ergosign
- Eyeled
- IMC
- Natif.ai
- Neogeist Ventures
- SAP (St. Ingbert)
- site point

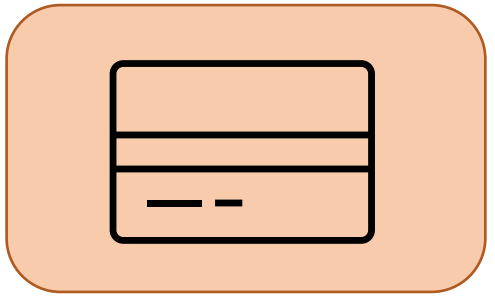
It's your responsibility to find an internship.

You do not need to do the internship in Saarland.

A possible internship needs to be approved by us beforehand.

The internship needs to cover topics from the domain of media informatics.

Practical Phase



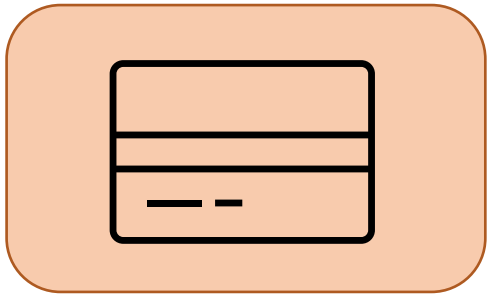
Required details for approval

Scope, topic and company are suggested by the student and need to be accredited by Prof. Krüger, before you start the internship. The procedure to get this approval is the following:

1. Provide the following information via e-mail to the internship contact person with the team assistance in CC:
   Name of the company
   The time frame when you plan to do the internship (start and end date) and the weekly hours per week:
   What the company is doing
   In which department of the company you will work (include a short description of the department)
   A short description of what you will do in the company during your internship
   Why you think that this is a reasonable topic for your media informatics internship
2. The internship contact person will either request more information or will forward this to Prof. Krüger with a first assessment.
3. As soon as Prof. Krüger has given his final assessment, the internship contact person will relay it back to you. Sometimes this process can take longer. Please wait for at least 14 days before you ask the internship contact person about the current process state.
4. (Optional) Some companies require you to proof that the study program requires you to do an internship. In such a case, please send them your immatriculation certificate and your study regulation (found at the examination office page). For example the "Studienordnung Master Medieninformatik 2020" clarifies this in §6. If this is not sufficient, you can download a German or English document, enter your data here and send it to our team assistance.

Practical Phase

One important entry from the FAQ:



[Practical Phase] What should the certificate of the employer look like?

The employer just has to provide a document that contains the name of the company, the name of the intern and the information that it was an internship, the department/area you have worked at (e.g. software development, interaction design, etc.), at least two sentences what you actually did during the internship, the duration of the internship (when the internship started, when it ended and your weekly working time), how many hours the internship overall covered (reminder: the internship needs to cover at least 600 hours) and a signature of a person that is responsible for staff matters (e.g. internship supervisor, HR department, etc.).

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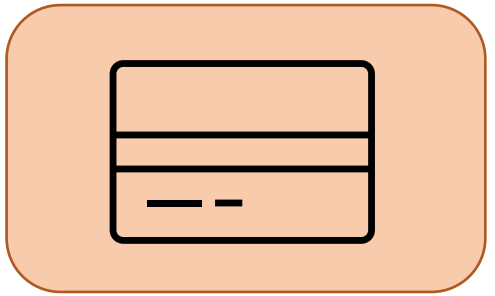

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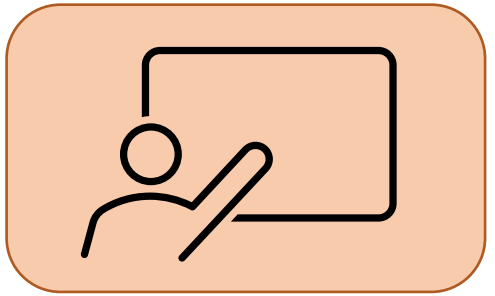
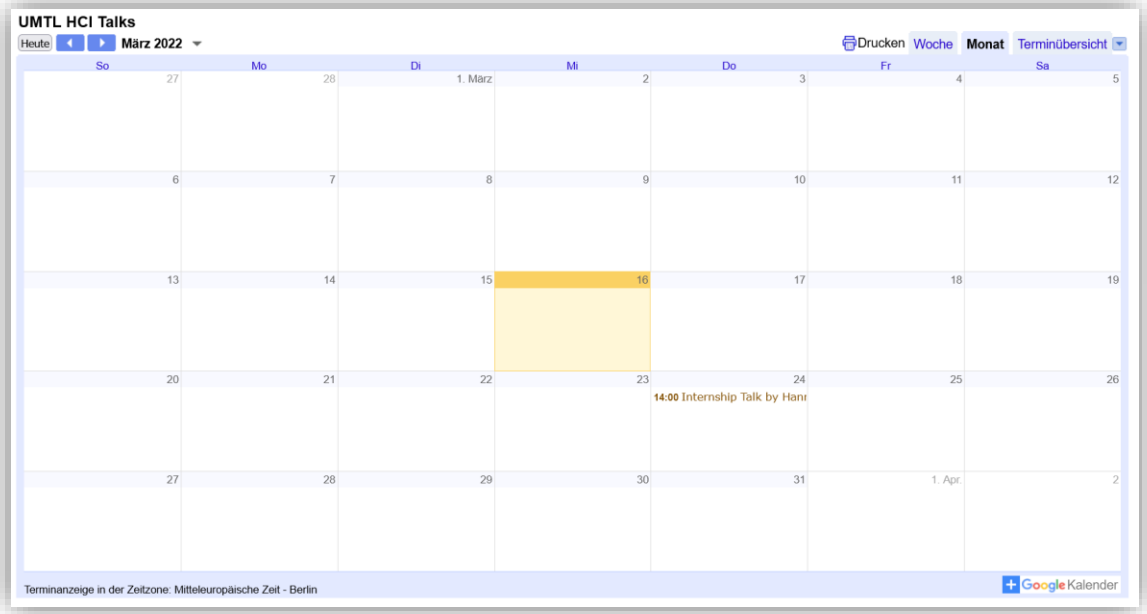
Sometimes, these pieces of information are missing ➔ ensure that they are present before submitting the document to us.

Practical Phase





https://umtl.cs.uni-saarland.de/research/talks.html

Seminar

To pass the seminar accompanying the practical phase, there are the following requirements:

1. Attending at least **3 other seminar talks**
2. **Giving a 30 minute presentation about the internship**. This presentation should introduce the company, as well as the work you have done. The presentation is supposed to close with a short summary and what you liked about the internship and what not.

To choose a timeslot for your presentation, please contact the internship contact person with **5 suggestions of possible dates** (including your available time on these days) **and the following information:**

Title: [Add the title of the talk]
Type of Talk: Internship-Talk
Internship-Company: [Add the name of the company where you did your internship]
Speaker: [Add your name]
Time and date: [Add the time and date]
Teams-Link: [Add the link]
Abstract: [Provide a short abstract of the talk]

Digital meetings!

After the date is aggreed upon, you will receive the Teams link and the talk will be added to the calender (see below).

You need to attend other talks +
provide your slides after your talk!

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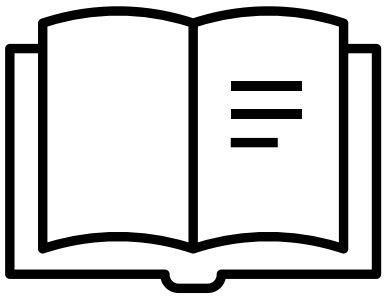
Thesis (4th Semester)

HBKsaar Details

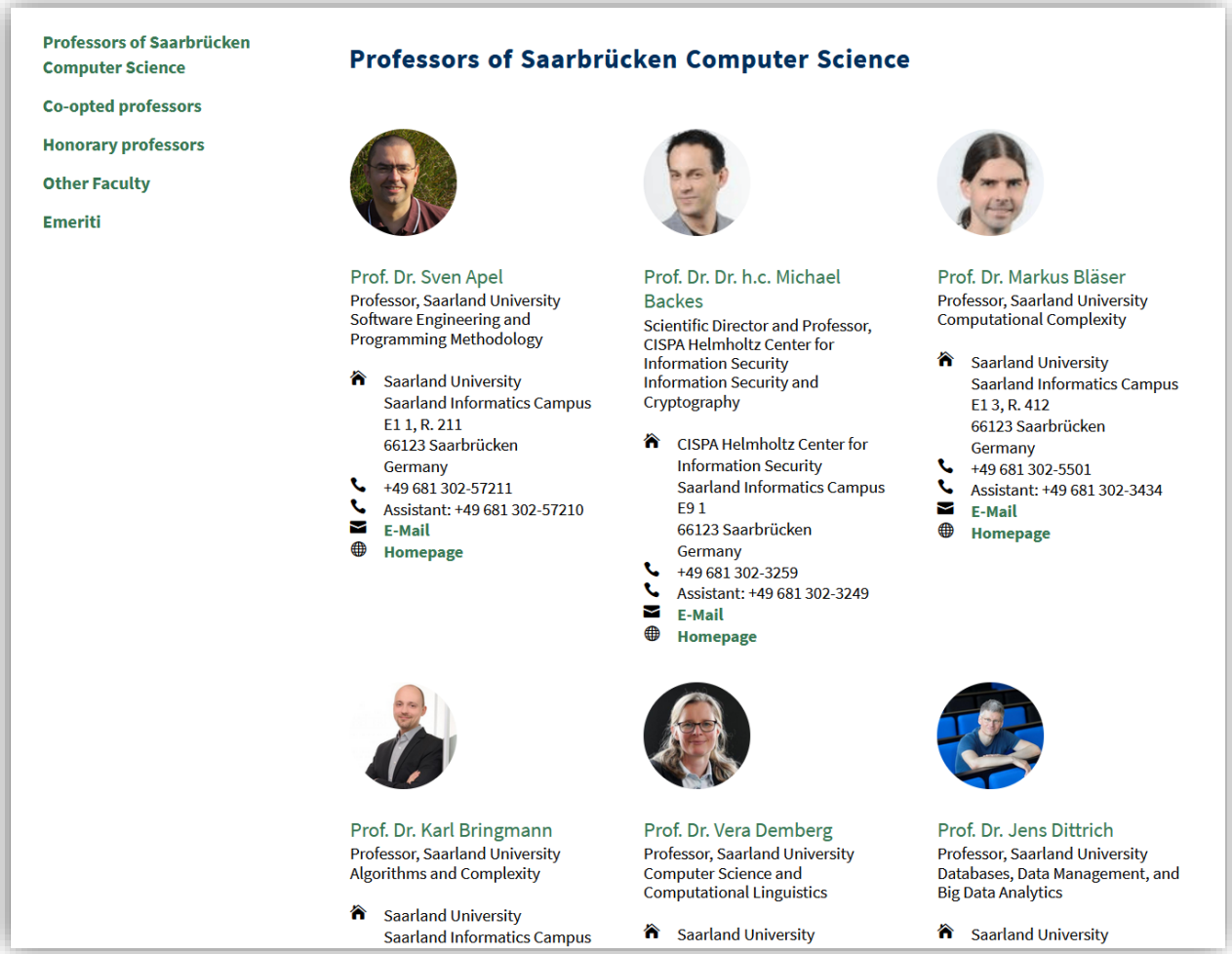
General Options



Two general options:

- A) Writing your thesis **internally** at Saarland University.
  - This can be typically done at **all Computer Science chairs**.
    Therefore, it is reasonable to start finding suitable chairs early and attending their courses.
  - Different requirements!
    Check them out before contacting the corresponding chair/responsible person.
- B) Writing your thesis in an **external company**.
  - You also need to find a Professor of Computer Science at Saarland University who agrees to co-supervise.

Supervisors



Professors of Saarbrücken Computer Science

Co-opted professors

Honorary professors

Other Faculty

Emeriti

Professors of Saarbrücken Computer Science

Prof. Dr. Sven Apel
Professor, Saarland University
Software Engineering and Programming Methodology

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Professor, Saarland University
Computational Complexity

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Prof. Dr. Karl Bringmann
Professor, Saarland University
Algorithms and Complexity

Saarland University
Saarland Informatics Campus

Prof. Dr. Vera Demberg
Professor, Saarland University
Computer Science and Computational Linguistics

Saarland University

Prof. Dr. Jens Dittrich
Professor, Saarland University
Databases, Data Management, and Big Data Analytics

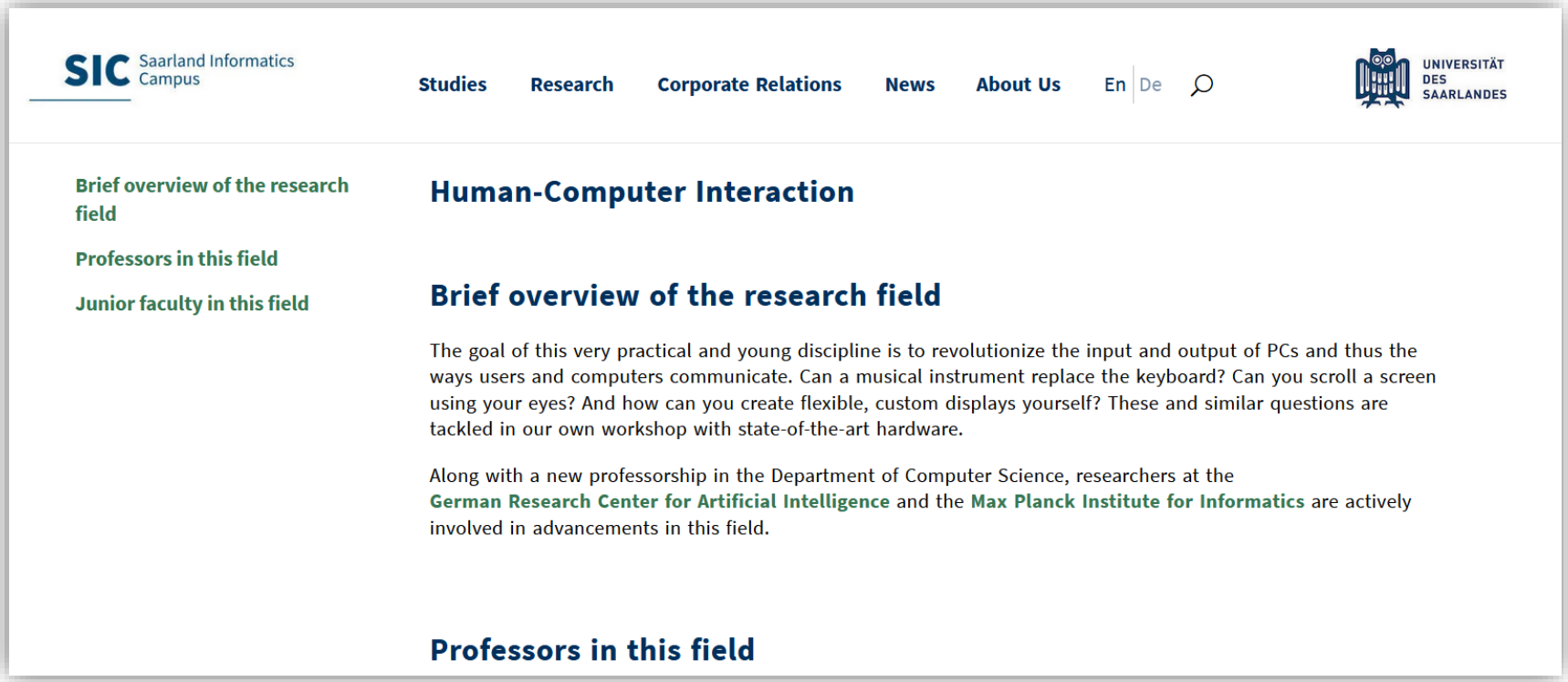
Saarland University

Link to their chair pages
➔ Presentation of research interests

https://saarland-informatics-campus.de/en/forschung-research/advisors

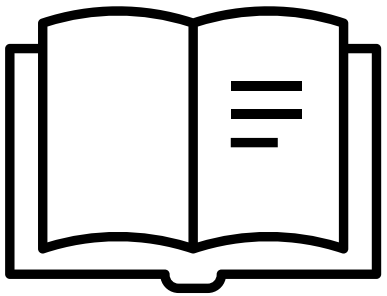
HCI-related Chairs

Research fields @SIC



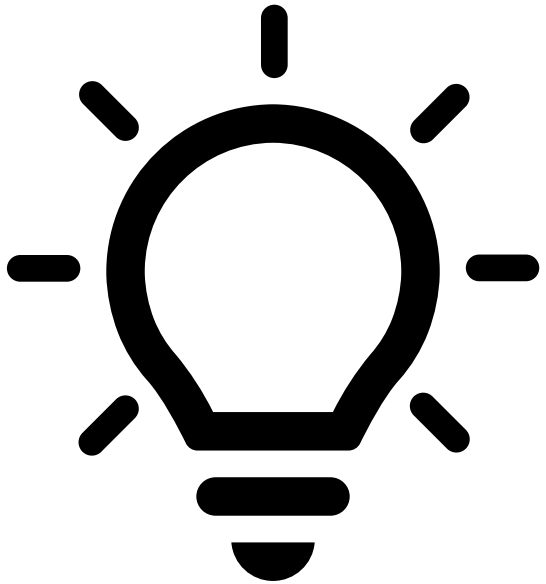
https://saarland-informatics-campus.de/en/forschung-research/human-computer-interaction

Master Seminar



- Before you can register your thesis officially, you must complete the Master Seminar (12 CP).
- Every chair has its own implementation of it.
  In general, you do preparatory work for the thesis (e.g., in-depth literature review, shaping the research question, etc.).
- Typical, you will also present your thesis idea and related work in a talk, followed by a discussion. Additional elements (e.g., a written document) can also be part.
- You must register the thesis within one semester after successfully completing the Master Seminar (or you must redo the Seminar). The thesis must be completed within six months after official registration.

Plan Accordingly!



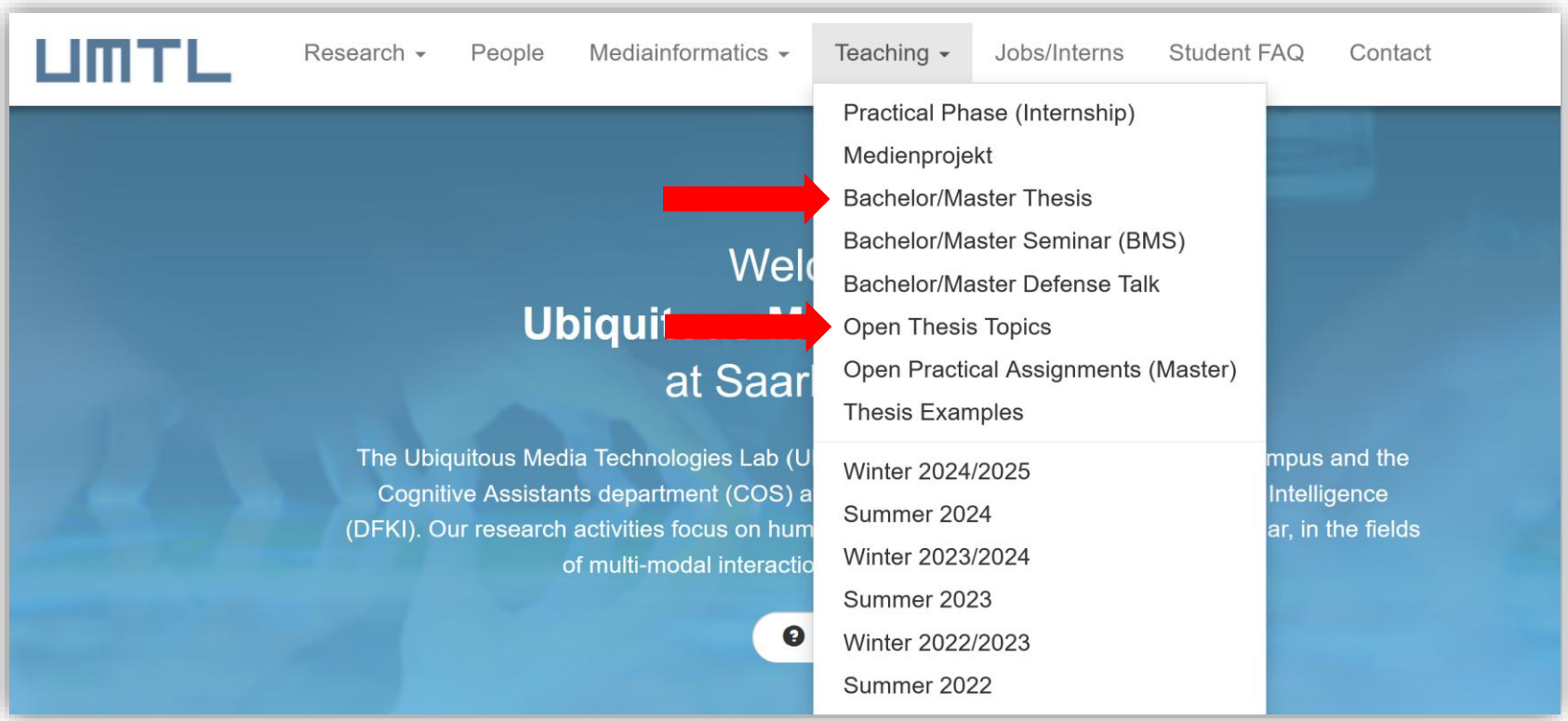
- Experience shows that it is sometimes difficult for some students to find a thesis supervisor.

- To minimize this issue, pick your seminar and courses strategically (i.e., at chairs that do research that is of interest for you) and achieve good grades in these. **Goal**: Chairs should not only learn about you, when you want to write a thesis with them.
  - Start this process already early on!

- If you do not get a seat in these seminars and they give no core lectures (or other relevant courses for you), try to get in contact with them via other formats, for example the “Master Practical Assignments” (6 CP, for the Mandatory Electives).

Example: UMTL Chair

Example: UMTL Chair



https://umtl.cs.uni-saarland.de

Example: Our Process

Bachelor/Master Thesis

How can I pursue a thesis at UMTL?

If you are interested in writing a Bachelor's or Master's thesis at our chair, please be aware of the following prerequisites and principles:

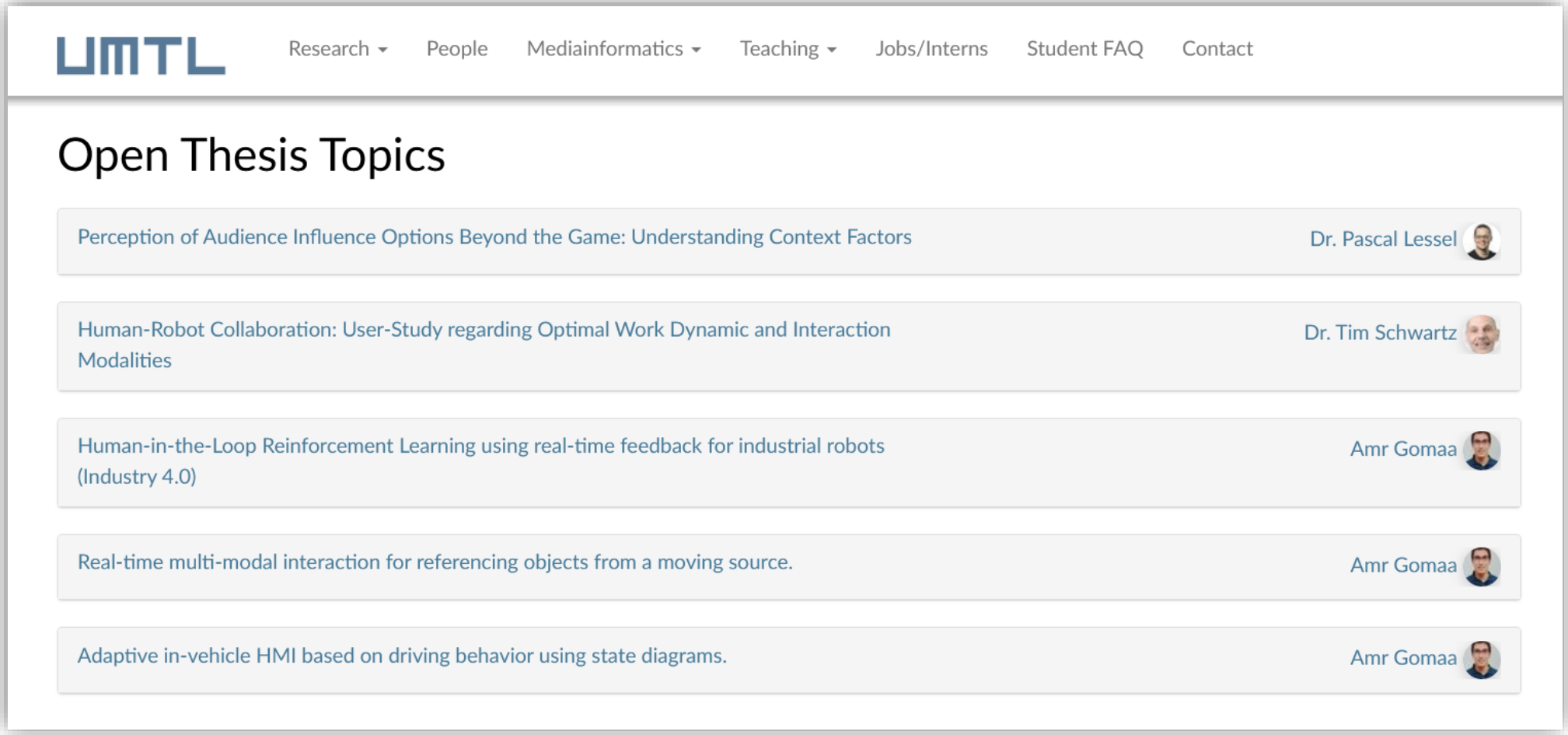
1. Optimally, you have successfully attended lectures and/or seminars given by our group (Bachelor or Master).

2. To find an advisor and apply for a topic, there are two options:
   a. **You are looking for a topic**: Have a look at our open thesis page. Here you can see what we currently offer - every entry illustrates how to apply for it. If you have experience in an area that we cover (please visit the individual web pages of our team members), but no corresponding open topics are available at the moment, you can proactively contact the corresponding member of UMTL. Add your current transcript of records (as well as former ones, if applicable), a motivational statement why the area is a good fit for you and a clear timeframe indicating when you plan to do your thesis (planned start + end date). Please note that there is no guarantee that we can supervise you.
   b. **You already have a topic** (your own idea or the topic is proposed by an external company): In order to learn more about our research interests, please visit the individual web pages of our team members. Please send Prof. Krüger an email with the names of the team members that match the topic of your intended thesis closest (if you cannot identify a match, we are likely the wrong chair for supervision).
   Please note, if the thesis does not fit to our research agenda or the relevant members have no capacity left, we might not be able to supervise you on this topic (however other Computer Science chairs might be able to, see below). If the topic comes from an external company, please include the original thesis description in your initial contact and also state whether there are aspects the company needs us to consider (e.g., "Sperrvermerk"/NDAs etc.). If the topic is a fit and a member is interested, Prof. Krüger will initiate the contact.

3. The potential advisor will review your application:
   - **You get a positive reply**: Great news! You can now proceed with the topic and follow the steps stated in the section "*After I have a topic and an advisor - what else do I need?*" (if it is an external thesis, see also the common questions section)
   - **You receive a negative reply**: Sadly, the team member cannot accept your application. This could be because of different reasons, such as the lack of

Remember: Other chairs might have other requirements and other processes

Example: Find Our Open Topics



Example: UMTL Master Seminar

Bachelor/Master Seminar (BMS)

The previous Bachelor-Master-Seminar (BMS) regulations were updated and valid since 23.07.2018. These rules apply for all theses assessed by Prof. Krüger as the first reviewer. If this is not the case, the BMS-regulations should be checked and fulfilled by a respective first reviewer.

The purpose of BMS is to train scientific working methods. It serves as the basis for theses in our department. The grade for BMS consists of:

- (I) the literature review and the written summary of relevant works on the revised topic and
- (II) the presentation of the exact planning of the thesis.

Both parts will be graded and make up the BMS grade in equal proportion.

Questions so far?

Agenda

General Information

Internship (2^{nd} Semester)

Thesis (4^{th} Semester)

HBKsaar Details

Note: What is shown was for illustrative purposes.
Binding are always study program documents etc.
and not these slides.