

[saarland-informatics-campus.de](http://saarland-informatics-campus.de)

# Saarland Informatics Campus

Welcome for Master Students  
in Embedded Systems

Prof. Holger Hermanns, 01.10.21



UNIVERSITÄT  
DES  
SAARLANDES

**SIC**

Saarland Informatics  
Campus



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WELCOME

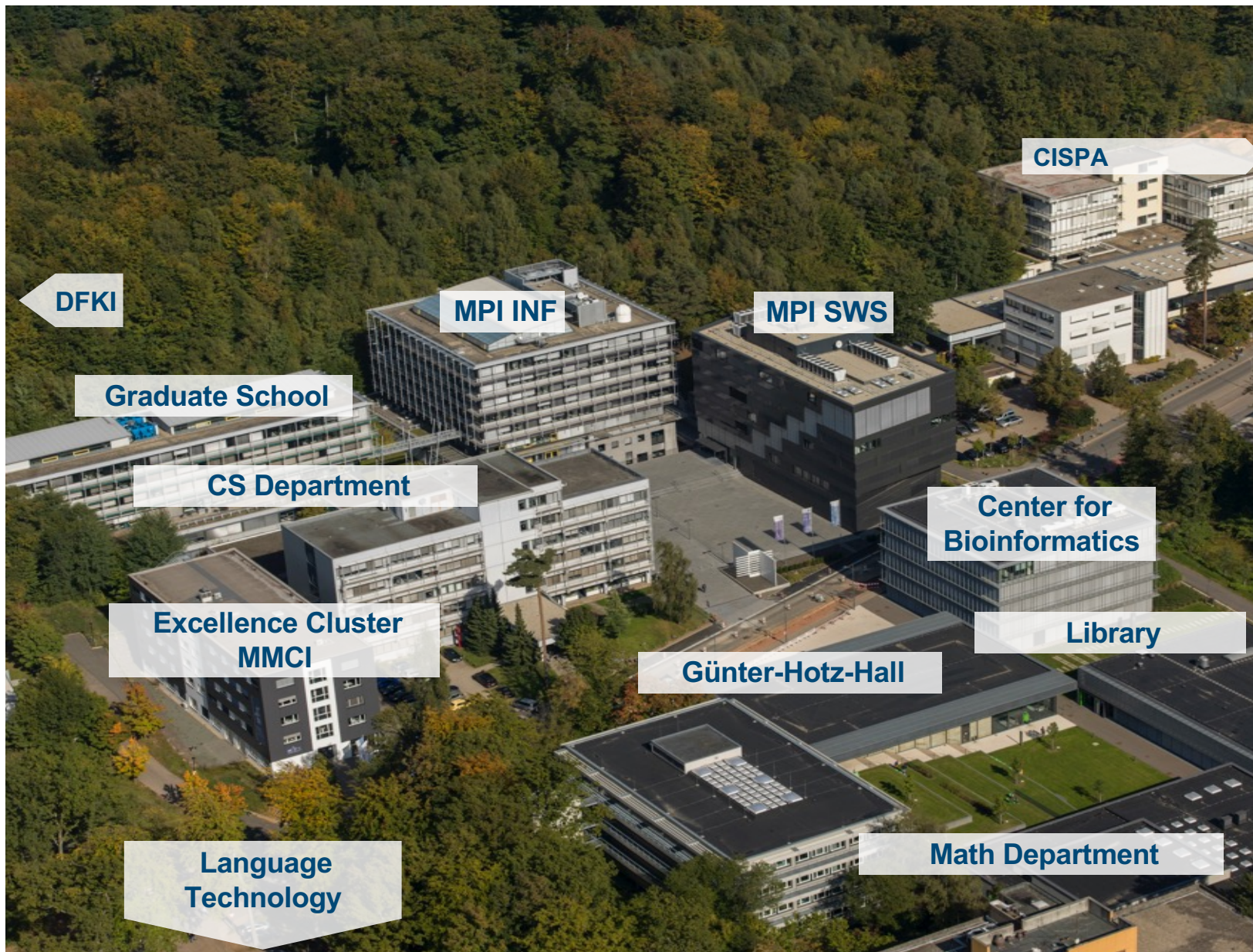
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## Welcome at SIC



**Click:**

<https://bit.ly/WelcomeSIC21>



**SIC** Saarland Informatics  
Campus



UNIVERSITÄT  
DES  
SAARLANDES



CBI CENTER FOR  
BIOINFORMATICS



CLUSTER OF EXCELLENCE



**CISPA**  
HELMHOLTZ CENTER FOR  
INFORMATION SECURITY



max planck institut  
informatik



MAX PLANCK INSTITUTE  
FOR SOFTWARE SYSTEMS

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## RESEARCH

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### About us

- **5 informatics institutes** and **3 collaborating departments** on campus
- Around **2,100 students** from more than **80 countries**
- **74 research groups**, 300 doctoral candidates
- ~ **800 scientists** at SIC
- 24 informatics study programs, **16 research fields**
- **24 ERC Grants**, **7 Leibniz Awards**, 5 Konrad Zuse Medals
- **4 Collaborative Research Centres**



**More about us:**

<https://saarland-informatics-campus.de/en/ueberuns-aboutus/>

## CAREER PROSPECTS

### Outstanding career prospects

#### Plenty of different work experience opportunities:

- You can work as a research assistant in the computer science department or at one of the five associate institutes or as an intern at one of the many start-ups and IT companies in the region (Dillinger, Saarlühl, ZF, Hydac, SAP and so on)

#### With a degree from Saarbrücken, you will be an ideal candidate for jobs in leading companies in the high-tech industry:

- Cooperations between our campus and numerous international organizations (more than 100), such as Google, Microsoft, Facebook, Intel, Samsung, IBM, EADS, Microsoft, Bosch, Airbus, Siemens, etc.

#### If you wish to pursue a career in academia, you can stay on with us:

- The [Saarbrücken Graduate School of Computer Science](http://www.graduateschool-computerscience.de) provides an optimal environment for pursuing doctoral studies in computer science at an internationally competitive level

#### Saarland University provides a broad range of support for budding entrepreneurs:

- Since 2005 more than 100 spin-offs





**Your Studies at Saarland  
University**

## YOUR STUDIES

### Winterterm 2021/2022

- On **October 18**, Saarland University is starting lectures for the winter semester 2021/22.
- Re-introducing face-to-face mode; courses on master's level will also be available online. Exams will take place on site. You are only allowed to attend offline events in person, if you can either prove you are fully vaccinated, have received a negative COVID-19 test result (twice per week) or have recovered from an infection with COVID-19 ('3G' status)
- When entering a teaching room, you have to register via the Staysio App: <https://staysio.de/#/>
- If it is not possible to maintain the minimum physical distance of 1.5 metres to each other, you are required to wear a medical face mask.
- Information about courses and tutorials is provided on the webpages of the lecturers and also the [LSF](#)

You can also **get vaccinated for free** via a mobile vaccination team who will be **on our Saarbrücken Campus** from **11 to 22 October** (Monday to Friday, 9am to 4pm)  
<https://www.uni-saarland.de/en/division/ls/informationen-zum-semesterbetrieb/winter-semester-2021-22.html>

#### New at Saarland Informatics Campus?

Starting your studies can be quite exciting. Finding your way around after enrollment is not always easy. To make it easier for you, you will find all the important steps on your way to us here - from enrollment to the start of the semester. The study coordinator, the student council and students from higher semesters are always happy to help you get started and are always open to questions and personal concerns.

- |                                |   |                                     |   |                                    |   |
|--------------------------------|---|-------------------------------------|---|------------------------------------|---|
| 1. User account information    | ⊙ | 4. Enroll: Math Pre-Course and STEP | ⊙ | 7. Download the Uni-App            | ⊙ |
| 2. Get to know fellow students | ⊙ | 5. Access to E-Mail, WLAN and VPN   | ⊙ | 8. Information about your semester | ⊙ |
| 3. Follow us on Social Media   | ⊙ | 6. Study organisation               | ⊙ |                                    |   |



#### Further Information:

<https://www.uni-saarland.de/en/page/coronavirus/faq-students.html>

<https://saarland-informatics-campus.de/en/semesterinfo/>

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## YOUR STUDIES

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# Study Regulations for Master of Embedded Systems

*Read your study documents carefully!*

Examination regulations, subject-specific regulations and study regulations: [Check the website for the joint examination offices of all faculties of Natural Sciences and Technology:](#)

<https://www.ps-ntf.uni-saarland.de/index.php?id=200&L=3>

*You have to know your rights and duties as student!*



### Course Documents

#### Study Regulation 2016 (current)

Joint Examination Regulations for Bachelor's and Master's degree programmes of the Faculty of Mathematics and Computer Sciences 2021 (German, English coming soon)

Subject-Specific Regulations for the Bachelor's and Master's Degree Programmes in Embedded Systems

Study regulations Bachelor Eingebettete Systeme 2016 (German)

Study regulations Master Embedded Systems 2016

Module Descriptions Bachelor Eingebettete Systeme (German)

Module Descriptions Master Embedded System

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YOUR STUDIES

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## Study Regulations 2016 for Master's programme Embedded Systems

1. **27 - 31 graded** credits in the category of **core lectures** in embedded systems
2. **27 - 31 graded** credits in the categories of **core lectures, advanced lectures, or seminar** in embedded systems (here: at most 1 seminar!)
3. **7 graded** credits in the category of **seminars** in embedded systems
4. At least **17 ungraded credits** must be acquired by:
  - Further core, advanced courses or seminars in embedded systems
  - Internship in a company (max. 6 CP); approved by the examination board
  - Leading a tutorial (tutor)
  - Language courses (max. 6 CP, living language)
  - Courses from other departments, which have been applied for and approved by the examination board (e.g. in mathematics or business informatics)
5. **12 graded** credits for the **Master's seminar** and **30 CP** for the **Master's thesis**

## YOUR STUDIES

# Course catalogue (LSF)

*How to choose a lecture – example: core lecture*

Faculty Mathematics and Computer Science   ~~Courses on Embedded Systems~~   Master →

<https://www.lsf.uni-saarland.de/qisserver/rds?state=wtree&search=1&trex=step&root120212=300726|294085|299760|303367|298983&P.vx=kurz>

The screenshot shows the LSF course catalogue interface. At the top, there is a blue navigation bar with links: Home, Login, **current semester** (highlighted with a red circle), and Sitemap. Below this, there is a section for 'Student's Corner' with a 'Courses' link (also highlighted with a red circle). The main content area is titled 'Course Overview' and contains a search bar and a list of lecture categories. The 'current semester' tab is selected, showing a hierarchical list of courses. The path to 'Core Lectures' is highlighted with a red circle: Mathematics and Computer Science → Computer Science → Courses on Embedded Systems → Master → Core Lectures.

**Course Overview**   **current semester**

- **Vorlesungsverzeichnis**
  - **Mathematics and Computer Science**
    - **Computer Science**
      - **Courses on Embedded Systems**
        - **Master**
          - **Core Lectures** (highlighted with a red circle)
          - **Advanced Lectures**
          - **Seminars**
          - **Freely chosen points**

**Bachelor ES:**  
Basic Lectures and Introductory Seminars  
can **only** be taken by **bachelor students**

## YOUR STUDIES

# Course list (Core lectures)

*How to choose a lecture – example: Verification*

Course Overview **current semester**

- 1 Vorlesungsverzeichnis
  - 1 Mathematics and Computer Science
    - 1 Computer Science
      - 1 Courses on Embedded Systems
        - 1 Master
          - 1 Core Lectures

Lect.-No.	Lecture
131672	Theoretische Elektrotechnik II - Dyczij-Edlinger
131674	Computational Electromagnetics 1 - Dyczij-Edlinger
131752	High Frequency Engineering (Hochfrequenztechnik) - Möller
131820	Elektrische Antriebe (Antriebstechnik 1) - Nienhaus
131827	Systemtheorie und Regelungstechnik 2 - Rudolph
131860	Mikrosystemtechnik - Schütze
131931	Aufbau- und Verbindungstechnik I - Wiese
131933	Elektronik - Teilmodul Bauelemente - Wiese
131934	Mikroelektronik III - Xu
133206	Multimedia Transport (Future Media Internet) - Herfet
133613	Digital Transmission, Signal Processing - Herfet
133616	Security - Krombholz, Tippenhauer
133617	Software Engineering - Apel
133619	Verification - Finkbeiner
133627	Operating Systems - Kaufmann, PhD
133630	Neural Networks: Theory and Implementation - Klakow

*Example !*



Verification - Single View  
Go Back

Functions: Schedule preselected

Page contents: Basic Information | Dates/Times/Location | Responsible Instructor | Curriculae | Departments | Structure Tree

**Basic Information**

Type of Course	Lecture / Exercise/problem-solving class	Long text	
Number	133619	Short text	
Term	WiSe 2021/22	Hours per week in term	
Expected no. of participants		Max. participants	
Turnus		Assignment	no enrollment
Credits			
Additional Links	<a href="https://www.react.uni-saarland.de/teaching/">https://www.react.uni-saarland.de/teaching/</a>		

*Example !*

**Dates/Times/Location Group:**

	Day	Time	Turnus	Duration	Room	Room-plan	Lecturer	Status	Remarks
1	Tue.	14:00 to 16:00	woch						Ort nach Vereinbarung (siehe Website der Veranstaltung)
2	Thu.	10:00 to 12:00	woch						Ort nach Vereinbarung (siehe Website der Veranstaltung)

**Please follow the instructions given on the webpage and/or join the first lecture**

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YOUR STUDIES

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## Example master's programme Embedded Systems

Sem.	Course			
1	Core course	Core course	Advanced course	Language course
2	Core course	Core or advanced course	Seminar	Advanced course
3	Masterseminar 12 CP	Seminar	Advanced course	Advanced course
4	Thesis 30 CP			

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## YOUR STUDIES

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### Control of progress

Full-time students are expected to deliver the following minimum requirements in the Master course of study:

- At least 9 credits after 1 semester
- At least 30 credits after 2 semesters
- At least 60 credits after 4 semesters
- At least 90 credits after 6 semesters

In case a student does not meet the minimum requirements for the second time, he/she shall **lose the right to participate in examinations**.

Students shall be given the opportunity to make a written statement before the examination board makes the final decision in the matter.

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## YOUR STUDIES

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### Examination registration

**Please notice:** For **all examinations** you have to register in LSF **one week before** the exam at the latest (final exam and/or re-exam)! **A delayed registration is not allowed!**

A withdrawal is possible **one week** before the respective exam at the latest; later only with a medical certificate!

**Only for core lectures:** You can improve a grade in a core course if you pass the final exam and take part in the re-exam **in the same exam period**. The better grade counts.

**For some courses e.g. seminars you have also to register before the course starts (limited number of participants):** Please have a look at the respective website because of the conditions for registration.

Seminar registration: <https://seminars.cs.uni-saarland.de/>

A withdrawal from a seminar registration is only possible three weeks after getting the topic for presentation.

**Problems?** Please contact the study coordination!

## YOUR STUDIES

### Contacts

#### Study Coordinators: Dr. Tanja Breinig and Barbara Schulz-Brünen

Assistance in your study organisation and progress:  
questions about the examination and study regulations, academic or personal problems,  
information about exchange semesters, etc.

Building E1.3, rooms 209 and 207

**Office hours:** Tuesday and Thursday, 11 a.m.-1 p.m. (online via MS Teams)

**Emails to:** [studium@cs.uni-saarland.de](mailto:studium@cs.uni-saarland.de)

#### Examination office: Silke Lorang

Administration and processing of your programme achievements:  
Transcript of record, registration master thesis, official certificates, recognition of external  
academic achievements, etc.

Building E1.3, room 202

**Office hours:** Mondays, Tuesdays and Thursdays, 10 -11.30 a.m.

**Emails to:** [lorang@ps-mint.uni-saarland.de](mailto:lorang@ps-mint.uni-saarland.de)

**SIC System Administration:** <https://it.cs.uni-saarland.de/>



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