Saarland Informatics Campus

Welcome for Master Students in Embedded Systems

Prof. Holger Hermanns, 01.10.21
Welcome at SIC

Click: https://bit.ly/WelcomeSIC21
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, Saarstahl, ZF, Hydac, SAP and so on)

With a degree from Saarbrucken, 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 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
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://stays.io/de/#/](https://stays.io/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.

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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)


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New at Saarland Informatics Campus?

Starting your studies can be quite exciting. Finding your way around after enrolment is not always easy. To make it easier for you, you will find all the important steps on your way to us here - from enrolment 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
2. Get to know fellow students
3. Follow us on Social Media
4. Enroll: Math Pre-Course and STEP
5. Access to E-Hall, WLAN and VPN
6. Study organisation
7. Download the Uni-App
8. Information about your semester

Further Information:

[https://saarland-informatics-campus.de/en/semesterinfo/](https://saarland-informatics-campus.de/en/semesterinfo/)
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:


You have to know your rights and duties as student!
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*
Course catalogue (LSF)

How to choose a lecture – example: core lecture

Faculty Mathematics and Computer Science

Courses on Embedded Systems

Bachelor ES:
Basic Lectures and Introductory Seminars can only be taken by bachelor students
## Course list (Core lectures)

### How to choose a lecture – example: Verification

#### Course Overview (current semester)

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

#### Example!

Please follow the instructions given on the webpage and/or join the first lecture.
# Example master‘s programme Embedded Systems

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Course</th>
<th>Course</th>
<th>Advanced course</th>
<th>Language course</th>
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<tbody>
<tr>
<td>1</td>
<td>Core course</td>
<td>Core course</td>
<td>Advanced course</td>
<td>Language course</td>
</tr>
<tr>
<td>2</td>
<td>Core course</td>
<td>Core or advanced course</td>
<td>Seminar</td>
<td>Advanced course</td>
</tr>
<tr>
<td>3</td>
<td>Masterseminar</td>
<td>Seminar</td>
<td>Advanced course</td>
<td>Advanced course</td>
</tr>
<tr>
<td>4</td>
<td>Thesis</td>
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<tr>
<th>CP</th>
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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.
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/](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!
Contacts

Study Coordinators: Dr. Tanja Breinig and Barbara Schulz-Brünken
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

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

SIC System Administration: https://it.cs.uni-saarland.de/
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Saarland Informatics Campus #SIC

Follow us on Twitter
@SIC_Saar
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