

saarland-informatics-campus.de

Saarland Informatics Campus

Welcome for Master Students
in Embedded Systems

Prof. Dr. Jan Reineke, October 23, 2023



UNIVERSITÄT
DES
SAARLANDES

SIC

Saarland Informatics
Campus



WELCOME

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

RESEARCH

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**
- **5 Konrad Zuse Medals**, **28 ERC Grants**, **7 Leibniz Awards**
- **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, Saarlstahl, 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

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 programme documents

- ▶ [Examination regulations](#)
- ▶ [Examination regulations \(english\)](#)
- ▶ [Subject-specific + study regulations](#)
- ▶ [Subject-specific + study regulations \(english\)](#)

YOUR STUDIES

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 seminars** 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**

Sum = 120 credits in total.

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&root120232=356732%7C363531%7C357901%7C363229&P.vx=kurz&noDBAction=y&init=y](https://www.lsf.uni-saarland.de/qisserver/rds?state=wtree&search=1&trex=step&root120232=356732%7C363531%7C357901%7C363229&P.vx=kurz&noDBAction=y&init=y)

Home | Login | **current semester** | / | Sitemap

Student's Corner | **Courses** | Orgunits | Facilities | Members

You are here: Home ▶ Courses

Course Overview

Search for Lectures

Lectures today

Lectures cancelled today

Search for Lectures

Hide menu

Course Overview | **current semester**

- i** Vorlesungsverzeichnis
 - **i** Mathematics and Computer Science
 - **i** Computer Science
 - **i** Courses on Embedded Systems
 - **i** Master
 - **i** **Core Lectures**
 - **i** Advanced Lectures
 - **i** Seminars
 - **i** 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

Vorlesungsverzeichnis

Master

Master (konsekutiv)

Embedded Systems

Core Courses

Lect.-No.	Lecture
145290	Computational Electromagnetics 1 - Dyczij-Edlinger
145291	Theoretische Elektrotechnik II - Dyczij-Edlinger
145317	High Frequency Engineering (Hochfrequenztechnik) - Möller
145331	Elektrische Antriebe - Nienhaus
145338	Systemtheorie und Regelungstechnik 2 - Rudolph
145347	Mikrosystemtechnik (Mikrotechnologie) - Schütze
145369	Aufbau- und Verbindungstechnik I - Wiese
145370	Elektronik - Teilmodul Bauelemente - Wiese
145377	Mikroelektronik III - Xu
146215	Audio/Visual Communication and Networks (Telecommunications 2) - Herfet
146432	Digital Transmission, Signal Processing - Herfet
146434	Security - Bugtel, Holz
146435	Software Engineering - Apel
146436	Neural Networks: Theory and Implementation - Klakow
147527	Verification - Finkbeiner
148034	Einführung in die elektromagnetische Feldsimulation - Dyczij-Edlinger

Example !



Digital Transmission, Signal Processing - Single View

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Functions:

Page contents:

Basic Information

Dates/Times/Location

Responsible Instructor

Curriculae

Departments

Contents

Basic Information

Type of Course	Lecture / Exercise/problem-solving class	Long text	
Number	146432	Short text	
Term	WiSe 2023/24	Hours per week in term	
Expected no. of participants		Max. participants	
Turnus	Occasional	Assignment	no enrollment
Credits			
Additional Links	https://cms.sic.saarland/dtsp_23/#DTSPmatlab		
Language	english		

Example !

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

Dates/Times/Location Group:

	Day	Time	Turnus	Duration	Room	Room-plan	Lecturer	Status	Remarks	Cancelled on	Max. participants
<div></div>	Tue.	12:00 to 14:00	woch		Gebäude E1 3 - Hörsaal I (0.01.1)						
<div></div>	Wed.	08:00 to 10:00	woch		Gebäude E1 3 - Hörsaal I (0.01.1)						

YOUR STUDIES

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			

YOUR STUDIES

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.

YOUR STUDIES

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 also have 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 (1/2)

Computer Science Students' Representative Council

Students of different study programmes

E1.3, Raum 107

<https://cs.fs.uni-saarland.de/en/>

Study Coordinators: Dr. Rahel Stoike-Sy 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

Emails to: studium@cs.uni-saarland.de



YOUR STUDIES

Contacts (2/2)

Examination office:

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: information on website:

Emails to: contact person according to degree programme

<https://www.ps-mint.uni-saarland.de/de/programmes/es>

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



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follow us!



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