

saarland-informatics-campus.de

Saarland Informatics Campus

Welcome for Master Students
in Embedded Systems

Prof. Dr. Jan Reineke, April 11, 2024



UNIVERSITÄT
DES
SAARLANDES

SIC Saarland Informatics
Campus



WELCOME

Welcome at SIC



Click:

<https://bit.ly/WelcomeSIC21>



DFKI

MPI INF

MPI SWS

CISPA

Graduate School

CS Department

Center for Bioinformatics

Excellence Cluster MMCI

Library

Günter-Hotz-Hall

Language Technology

Math Department

SIC Saarland Informatics Campus



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, Saarstahl, 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

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

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

Example !

Dates/Times/Location Group:

	Day	Time	Turnus	Duration	Room	Room-plan	Lecturer	Status	Remarks	Cancelled on	Max. participants
→	Tue.	12:00 to 14:00	woch		Gebäude E1 3 - Hörsaal I (0.01.1)						
→	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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