



MSc Computer Engineering

School of Computer Engineering & Electronics

Computer architecture, edge computing and high-performance embedded systems.

Computer architecture, edge computing and high-performance embedded systems. The programme combines scientific foundations with project-based engineering practice, delivered in structured semesters with supervised teaching.

Qualification	Relevant bachelor's degree (at least 180 ECTS) or an equivalent recognised foreign degree with an overall grade of 2.5 or better
Academic credits	120
Duration	4 semesters
Language of instruction	Deutsch / English
Start	1 October 2027
Tuition	EUR 2,450 per semester, EUR 9,800 in total
Application deadline	15 July 2027

Curriculum

Semester 1

- Computer Architecture
- Embedded Systems
- VLSI and FPGA Design
- Numerical Methods

Semester 2

- Real-Time Systems
- Internet of Things
- Parallel and High-Performance Computing
- Research Seminar

Semester 3

- Digital Twins and Simulation
- Machine Learning
- Applied Cryptography and Hardware Security
- Research Project

Semester 4

- Master's Thesis and Defence

Learning outcomes

- Apply scientific method to technical problems
- Design, model and evaluate complex systems
- Communicate results to specialist and international audiences
- Assess technological developments in ethical and legal terms

Admission requirements

- Relevant bachelor's degree (at least 180 ECTS) or an equivalent recognised foreign degree with an overall grade of 2.5 or better
- Evidence of proficiency in the language of instruction — English C1 (IELTS 7.0 / TOEFL iBT 95) or German C1 (TestDaF 4x4 / DSH-2), depending on the language of instruction
- Complete application documentation — transcripts, language certificate, CV and identity document

Career opportunities

- Development and design roles in technology-driven organisations
- Research and development in institutes and industry
- Project and systems responsibility in interdisciplinary teams
- Progression to master's or doctoral study

Contact and application

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