

### University of Rostock

Founded in 1419, the University of Rostock is the oldest university in the Baltic Sea region and the third-oldest in Germany. Its maxim „Traditio et Innovatio“ combines maritime and hanseatic traditions with elite research and education.

### Faculty of Computer Science and Electrical Engineering (IEF)

The IEF is continuing the engineering tradition of the University of Rostock, which was the first University in Germany that expanded its profile in 1950 by a technical faculty.

### Study at the IEF

The study courses are offered responding to the uniform European Bachelor-Master-system. Teaching profession courses are completed with the first state examination.

- Study year – consists of winter semester (October to March) and summer semester (April to September)
- Bachelor and teaching profession – start of studies in the winter semester
- Master – start of studies possible in the winter and in the summer semester
- Courses without NC: enrollment only, Courses with NC (numerus clausus): application required, if accepted then enrollment, both online at [www.uni-rostock.de](http://www.uni-rostock.de)
- International: always applying via Uni-Assist if accepted then enrollment
- No tuition fees
- Start-up support – assistance during the start of studies

*Please inform yourself about the possibilities of a study and PhD, as well as assistance in the science.*

[www.ief.uni-rostock.de](http://www.ief.uni-rostock.de) / [www.uni-rostock.de](http://www.uni-rostock.de)

University of Rostock



### University of Rostock

#### FACULTY OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

##### Study Counselor

Albert-Einstein-Straße 26  
D 18059 Rostock  
Fon + 49 (0)381 498 7004 / 7005 / 7006  
Fax + 49 (0)381 498 7008  
[studienbuero.ief@uni-rostock.de](mailto:studienbuero.ief@uni-rostock.de)  
[www.ief.uni-rostock.de](http://www.ief.uni-rostock.de)

#### GENERAL STUDENT'S ADVISORY SERVICE & CAREERS SERVICE

Parkstraße 6  
D 18057 Rostock  
Fon + 49 (0)381 498 1230  
[studium@uni-rostock.de](mailto:studium@uni-rostock.de)

[www.uni-rostock.de](http://www.uni-rostock.de)

17<sup>th</sup> edition



## Study courses at the Faculty of Computer Science and Electrical Engineering



FACULTY OF COMPUTER SCIENCE  
AND ELECTRICAL ENGINEERING

## Study courses at the IEF – Bachelor

### Bachelor Electrical Engineering

7 semester ▪ language German ▪ imparting of practically oriented knowledge ▪ individual specializations in the 6<sup>th</sup> and 7<sup>th</sup> semester ▪ optional 12-week vocational internship in the 7<sup>th</sup> semester ▪ voluntary semester abroad possible

### Bachelor Information Technology/Technical Computer Science

7 semester ▪ language German ▪ two years basics- and orientation period ▪ in the 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semester topic related and individual specialization by mandatory and elective modules ▪ optional 12-week vocational internship in the 7<sup>th</sup> semester ▪ voluntary semester abroad possible

### Bachelor Medical Information Technology

7 semester ▪ language German ▪ three semesters basic studies ▪ 4<sup>th</sup> until 7<sup>th</sup> semester focus on electrical engineering or computer science as well as individual specialization through elective modules ▪ optional 12-week vocational internship in the 7<sup>th</sup> semester ▪ voluntary semester abroad possible

### Bachelor Computer Science

7 semester ▪ language German ▪ practical basic education for two years ▪ individual specialization with elective and application subjects ▪ 20-week vocational internship or semester abroad in the 5<sup>th</sup> or 6<sup>th</sup> semester or subsidiary subject in the 5<sup>th</sup> and 6<sup>th</sup> semester or from the 5<sup>th</sup> to 7<sup>th</sup> semester ▪ voluntary semester abroad possible

### Bachelor Business Informatics

7 semester ▪ language German ▪ specializations: Information Systems with focus on Business Informatics, Business Informatics with advanced foreign language training and an internship abroad ▪ 12-week vocational internship in the 7<sup>th</sup> semester ▪ voluntary semester abroad possible

## Study courses at the IEF – Master

All Bachelor courses can be combined with the identically named Master course to a consecutive study course:

### Master Electrical Engineering (consecutive)

3 semester ▪ language German ▪ specializations: Microelectronic and Communication Technology, System Technology, Technical Electronics ▪ voluntary semester abroad possible

### Master Information Technology/Technical Computer Science

(consecutive)

3 semester ▪ language German ▪ elective subject areas: Electrical Engineering, Computer Science, additional Elective Subject Area

### Master Medical Information Technology (consecutive)

3 semester ▪ language German ▪ specializations: Medical devices, Smart Personalized Health, Medical Data Analytics, additional Elective Subject Area Information Technology

### Master Computer Science (consecutive)

3 semester ▪ language German ▪ specializations: Information Systems, Complex Systems

### Master Business Informatics (consecutive)

3 semester ▪ language German ▪ elective subject areas: Business Administration and Computer Science ▪ up to two voluntary semesters abroad possible

### Help with the start for all bachelor and new master students

individual assistance during the start of studies and orientation in Rostock and in Germany with the help of mentoring from students for students



## Study courses at the IEF – Master & Teaching profession

Postgraduate study programs that require a Bachelor degree in the subjects Electrical Engineering, Computer Science, Engineering, Mathematics or Natural Sciences:

### Master Computational Science and Engineering

4 semester ▪ language English ▪ specializations: Computational Electrical Engineering, Computational Mechanical Engineering, Computational Physics ▪ from the 2<sup>nd</sup> semester optional semester abroad possible

### Master Electrical Engineering

4 semester ▪ language English ▪ specializations: Power Engineering, Information Technology

### Master Computer Science International

4 semester ▪ language English ▪ specializations: Information Systems, Complex Systems

### Master Visual Computing

4 semester ▪ language German ▪ elective subject areas: Visual Computing, Overview Computer Science ▪ optional semester abroad possible

Teaching Degree courses which requires to combine the subject Computer Science with another subject:

State examina Teaching profession Computer Science for Secondary Schools (Gymnasium) and  
State examina Teaching profession Computer Science for Regional Schools (Regionale Schulen)

each course: 10 semesters ▪ language German ▪ one subject for teaching profession, combination with another subject necessary ▪ voluntary semester(s) abroad possible