Introduction to

Electrical Engineering, Information Technology and Computer Engineering (M.Sc.)

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Introduction to Msc. EE, IT and CE

Contact Persons

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Dipl.-Ing. Achim Knepper

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Examination Board
Dr.-Ing. Pia Müller

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Dr.-Ing. Christine Sander
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Departmental Advisors

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Dipl.-Inform. Tatjana Eiden
Dipl. Math. Ingrid Reiβel

Open office hours
Tuesdays and Thursdays 8:30 to 12:00,
Mies-van-der-Rohe-Str. 15, room 004

At any other time by appointment only
What to expect?

- Structure of the programme
- RWTHonline
- Requirements/Auflagenfächer
Introduction to MSc. EE, IT and CE

Majors in EE, IT and CE (MSc.)

• Electrical Power Engineering (EPEN)
• Micro- and Nanoelectronics (MINA)
• Communication Engineering (COMM)
• Computer Engineering (COMP)
• Biomedical System Engineering (BMSE)
• Systems and Automation (SYAT)
Introduction to MSc. EE, IT and CE

How to select the major?

Central Examination Office/ Zentrales Prüfungsamt

Felicia Schaffhausen

Super C, Room 2.22

Mo, We 13-15.45; Tue, Thu 9-12.30;

Fr on appointment only
# Regulation of Examination (MPO 2018)

<table>
<thead>
<tr>
<th>Description</th>
<th>CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory and mandatory-elective modules out of the subject area <strong>CORE</strong> subjects and <strong>ELECTIVE</strong> subjects of the selected major (graded exams)</td>
<td>40 CP</td>
</tr>
<tr>
<td>Modules out of the subject catalogue <strong>GENERAL</strong> elective subjects from the overall Master’s course (graded exams)</td>
<td>8 CP</td>
</tr>
<tr>
<td><strong>Laboratory course or project</strong> as offered by the selected Major (ungraded)</td>
<td>4 CP</td>
</tr>
<tr>
<td><strong>Graded seminar</strong> from the catalogue of seminars offered by the Faculty of Electrical Engineering and Information Technology</td>
<td>4 CP</td>
</tr>
<tr>
<td>Ungraded <strong>additional qualifications</strong> including the possibility to choose another seminar (ungraded) and/or 1-2 additional lab courses or projects from the overall Master’s course (all Majors included)</td>
<td>12 CP</td>
</tr>
<tr>
<td>Ungraded <strong>industrial internship</strong> (including an internship related seminar)</td>
<td>22 CP</td>
</tr>
<tr>
<td><strong>Master’s thesis</strong> (including the required Colloquium)</td>
<td>30 CP</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 CP</strong></td>
</tr>
</tbody>
</table>
# Introduction to MSc. EE, IT and CE

## Catalogues

<table>
<thead>
<tr>
<th>Catalogue</th>
<th>EPEN</th>
<th>COMM</th>
<th>MINA</th>
<th>COMP</th>
<th>SYAT</th>
<th>BMSE</th>
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</thead>
<tbody>
<tr>
<td>CORE</td>
<td>20 CP</td>
<td>16 CP</td>
<td>16 CP</td>
<td>16 CP</td>
<td>16 CP</td>
<td>16 CP</td>
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<tr>
<td>ELECTIVE</td>
<td>20 CP</td>
<td>24 CP</td>
<td>24 CP</td>
<td>24 CP</td>
<td>24 CP</td>
<td>24 CP</td>
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<tr>
<td><strong>Summe</strong></td>
<td><strong>40 CP</strong></td>
<td><strong>40 CP</strong></td>
<td><strong>40 CP</strong></td>
<td><strong>40 CP</strong></td>
<td><strong>40 CP</strong></td>
<td><strong>40 CP</strong></td>
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</tbody>
</table>
The Structure of CORE and ELECTIVE

The Catalogues CORE and ELECTIVE

• A total of 40 graded credits from CORE and ELECTIVE

• Registration for the lectures in RWTHonline and starting December, 3rd separately for the examinations

• The subjects of the catalogues are determined by the coordinators of the study majors.

An exchange is usually not possible!
Mapping of your Curriculum in RWTHonline

88 750 Electrical Engineering, Information Technology and Computer Engineering (HG NRW/2018, Master programme, current)

**Curriculum**
Academic year 2018/19

<table>
<thead>
<tr>
<th>Node Name</th>
<th>Part of the Curriculum</th>
<th>Rec. Sem. (W/S)</th>
<th>Credits</th>
<th>Duration</th>
<th>WF</th>
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<tbody>
<tr>
<td>[2018] Electrical Engineering, Information Technology and Computer Engineering</td>
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<td>120</td>
<td>1</td>
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<td>Major Fields</td>
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<td>44</td>
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<tr>
<td>Electrical Power Engineering (EPEN)</td>
<td>Yes</td>
<td>44</td>
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<td>1</td>
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<tr>
<td>Communications Engineering (COMM)</td>
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<tr>
<td>Computer Engineering (COMP)</td>
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<tr>
<td>Micro- and Nanoelectronics (MINA)</td>
<td>Yes</td>
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<td>1</td>
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<tr>
<td>Biomedical Systems Engineering (BMSE)</td>
<td>Yes</td>
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<tr>
<td>Systems and Automation (SYAT)</td>
<td>Yes</td>
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<tr>
<td>Electives (GENERAL)</td>
<td>Yes</td>
<td>8</td>
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<td>Graded Seminar</td>
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<td>4</td>
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<tr>
<td>Additional Qualifications (ADDITIONAL)</td>
<td>Yes</td>
<td>12</td>
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<td>1</td>
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<tr>
<td>Industrial Internship</td>
<td>Yes</td>
<td>22</td>
<td>1</td>
<td>1</td>
<td></td>
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<tr>
<td>Masterarbeit</td>
<td>Yes</td>
<td>30</td>
<td>1</td>
<td>1</td>
<td></td>
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<tr>
<td>additional examinations</td>
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<td></td>
<td>1</td>
<td>1</td>
<td></td>
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<tr>
<td>Requirements</td>
<td>No</td>
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<td>1</td>
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</tbody>
</table>
RWTHonline – Curriculum Support

https://online.rwth-aachen.de/RWTHonline/webnav.ini
Additional Qualifications

How to get credits for the addionals?

• Most Lectures at RWTH are free to take…

• … as long as they are not restricted with regards to number or study programme of participants

• The lectures should be registered in RWTHonline as „free registration/Freifach“

• For the registration of the associated exams an application to the examination board is needed.
Additional Qualifications

Compulsory German Language Courses

• If you have a B1 certificate in German (or higher), 8 CP can be acknowledged by the examination board of FB6

• otherwise do the placement test at the Language Center of RWTH Aachen

• Two German Language courses (4 CP each) are compulsory and therefore free of charge

• It doesn‘t matter where the courses will take you…

• This rule does not apply for German native speakers or people with a bachelor degree in German
Requirements/Auflagen

WHAT?
WHERE?
WHEN?
Requirements/Auflagen

What are my required courses? If any

- Have a look at your admission document
- The requirements are listed there, if you have any
- They are not negotiable! By accepting the admission they are also accepted.
- All required courses are core subjects of the German taught bachelor degree programme EE, IT and CE
- These subjects should not be taken lightly
Where to find the required courses?

- If you are fluent in German, take the German taught lectures as they are. You will find them in RWTHonline.

- International students should find translated English online courses in L2P: https://www3.elearning.rwth-aachen.de/SitePages/Start.aspx

- The examinations will be in either German or English.
When should I take the required courses?

- **AS SOON AS POSSIBLE**

- You will not get the admission for your Master‘s Thesis without all requirements passed

- There is no grades (just passed or not passed)

- There are (only) 3 attempts

- The exams should not be taken lightly
Introduction to MSc. EE, IT and CE

Questions?
Wichtige Informationsquellen:

- MODULEHANDBOOK, Regulations of Examination
- Departmental Advisory
- www.elektrotechnik.rwth-aachen.de
- Central Examination Office/ Zentrales Prüfungsamt (ZPA)
- internal WIKI of RWTH  https://wiki-intern.rwth-aachen.de