Education guide
Master's program Electrical Engineering
2019–2020

Adopted by the Departmental Board on August 29, 2019
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1. Master’s program Electrical Engineering 2019-2020

Electrical Engineering is about many things that are essential parts of people’s lives. It involves power generation, communication, healthcare and the environment, and electrical engineers solve a wide range of problems related to these topics. The department’s research focuses on smart, innovative electrical components and on the design of electrical systems, which may become very complex. We cooperate closely with the regional high-tech industry and with other partners all over the world.

The Electrical Engineering discipline is constantly changing. As a graduate of the Electrical Engineering Master's program you will find yourself equipped for researching, discovering and exploring new boundaries and for leading others along that way.

The purpose of the Master's program of Electrical Engineering is to teach students to work independently on complex research and design projects with the ability to rethink existing concepts and develop new ones. In the final phase of the program students will be able to present the results of their work to an international community. The curriculum of the Electrical Engineering Master's program comprises core courses, specialization courses, electives, professional development courses, an internship, and finally a graduation project in which the student demonstrates his/her engineering ability to a high standard.

These pages describe the current Master’s program of Electrical Engineering. The menu to the right also lists two related special Master’s tracks Connected World Technologies and Care and Cure. Note that these special Master's tracks are in essence the Master’s program of Electrical Engineering with specializations focused on the Telecommunication and Health Care domain. Also listed is the SENSE program, a two year dual degree program aimed at developing the knowledge in Smart Grids. The first year is attended at KTH Stockholm in Sweden, as a combination of courses and practical assignments. The second year includes courses, an internship and a graduation project, and is attended at TU/e.

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CSA EE
T: +31 40 – 247 6121
E: CSA.EE@tue.nl

Downloads
TU/e SENSE program 2019-2020
2. Curriculum

Program overview

<table>
<thead>
<tr>
<th></th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>First year</td>
<td></td>
</tr>
<tr>
<td>Diagnostic Test</td>
<td>0</td>
</tr>
<tr>
<td>Core courses</td>
<td>15</td>
</tr>
<tr>
<td>Specialization path</td>
<td>10</td>
</tr>
<tr>
<td>Elective courses</td>
<td>30</td>
</tr>
<tr>
<td>Professional</td>
<td>5</td>
</tr>
<tr>
<td>development</td>
<td></td>
</tr>
<tr>
<td>Second year</td>
<td></td>
</tr>
<tr>
<td>Internship</td>
<td>15</td>
</tr>
<tr>
<td>Graduation project</td>
<td>45</td>
</tr>
</tbody>
</table>

As of 2018-2019, the graduation project is 45 EC and only applies to master students who started in 2018-2019 and later. For students who started in 2015-2016, 2016-2017 and 2017-2018, the graduation project remains 40 EC.

The study load of the program is 120 EC. All examinations may be taken and completed in any order desired, except for the graduation project.

Check the [Master Electrical Engineering Checklist](#) to determine what has to be done before the start and during the first quarter of the first year.

Downloads
- [EE Approval study package](#)
- [Checklist Master EE 2019-2020](#)
- [Presentation Master Kick-Off curriculum 2019-2020](#)

2.1 Core Courses

Students choose three core courses from the table below. The choice is free, but research groups require specific core courses for their specialization.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>EC</th>
<th>Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>2DME10</td>
<td>Discrete Mathematics</td>
<td>5</td>
<td>1 (1,2)</td>
</tr>
<tr>
<td>2DME20</td>
<td>Non-linear Optimization</td>
<td>5</td>
<td>1 (1,2)</td>
</tr>
<tr>
<td>2DME30</td>
<td>Complex Analysis</td>
<td>5</td>
<td>1 (1,2)</td>
</tr>
</tbody>
</table>
Planning in the right column indicates the quarter in which the course will be offered, and in between brackets the quarters in which the course examinations will be scheduled.

Students who have already passed the exam of course 5XPB0 *Nano devices and integration* in the Bachelor are strongly advised to avoid choosing the course 5CCA0 as a core course due to some overlap with 5XPB0. They can choose another core course instead. See the 5CCA0 course information for more details.

### Core course preferences versus research groups 2019 - 2020

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ECO</td>
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<tr>
<td>PHI</td>
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<tr>
<td>EES</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPE</td>
<td>✓</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EM</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>ES</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>IC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPS</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

◆ = Important
✓ = Preferred

### 2.2 Specialization path

A specialization path is a set of two courses preparing for specialization in a specific area of Electrical Engineering.

If in specific situations a specialization path from the specialization path table is not an optimal specialization preparation, a different choice of specialization path may be made, which must be approved by the graduation supervisor.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>Control Systems</td>
</tr>
<tr>
<td>ECO</td>
<td>Electro-Optical Communication</td>
</tr>
<tr>
<td>EES</td>
<td>Electrical Energy Systems</td>
</tr>
<tr>
<td>EM</td>
<td>Electromagnetics</td>
</tr>
<tr>
<td>EPE</td>
<td>Electromechanics and Power Electronics</td>
</tr>
<tr>
<td>ES</td>
<td>Electronic Systems</td>
</tr>
<tr>
<td>IC</td>
<td>Integrated Circuits</td>
</tr>
<tr>
<td>Phi</td>
<td>Photonic Integration</td>
</tr>
<tr>
<td>SPS</td>
<td>Signal Processing Systems</td>
</tr>
</tbody>
</table>

The paths and their courses are listed below. In this table, research groups and track abbreviations are used as specified in the table above.

<table>
<thead>
<tr>
<th>Path</th>
<th>Code</th>
<th>Name</th>
<th>EC</th>
<th>Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>5SMA0</td>
<td>Model-based Control</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
<tr>
<td></td>
<td>5SMBO</td>
<td>System Identification</td>
<td>5</td>
<td>3 (3,4)</td>
</tr>
<tr>
<td>ECO</td>
<td>5SHA0</td>
<td>Photonic Integrated Devices</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
<tr>
<td></td>
<td>5STA0</td>
<td>Optical Fibre Communication Technology</td>
<td>5</td>
<td>3 (any)</td>
</tr>
<tr>
<td>EES-1</td>
<td>5SEBO</td>
<td>Decentral Power Generation and Active Networks</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
<tr>
<td></td>
<td>5SECO</td>
<td>Planning and Operation of Power Systems</td>
<td>5</td>
<td>2-3 (3,4)</td>
</tr>
<tr>
<td>EES-2</td>
<td>5SVA0</td>
<td>High Voltage Technology</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
<tr>
<td></td>
<td>5SVB0</td>
<td>Electromagnetic Compatibility</td>
<td>5</td>
<td>3 (3,4)</td>
</tr>
<tr>
<td>EM</td>
<td>5SPB0</td>
<td>Microwave Engineering and Antennas</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
<tr>
<td></td>
<td>5SPD0</td>
<td>Electromagnetic Modeling Techniques</td>
<td>5</td>
<td>3 (3,4)</td>
</tr>
<tr>
<td>EPE-1</td>
<td>5SWA0</td>
<td>Rotary permanent magnet machines</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
<tr>
<td></td>
<td>5SWB0</td>
<td>Advanced Power Electronics</td>
<td>5</td>
<td>3 (3,4)</td>
</tr>
<tr>
<td>EPE-2</td>
<td>5SWC0</td>
<td>Linear and Planar Motors for High-Precision Systems</td>
<td>5</td>
<td>2 (2,3)</td>
</tr>
</tbody>
</table>
2.3 Elective courses

Elective courses are all Master courses and level three Bachelor courses from Electrical Engineering, Master courses from all other TU/e study programs and from programs from other universities. Core courses and specialization courses are also valid electives. Language courses (Dutch and English) are permitted at C level but no more than one language course (5 EC). In case of doubt, the Examination Committee will decide if a course is admissible as an elective. For 15 credits of electives, a student needs an advice of his/her mentor or graduation supervisor, the other 15 credits of electives are free to choose.

Excluded Master electives

The following courses do not count as Master electives:

- All level 1 and level 2 Bachelor courses
- 5XSFO Enabling technologies for sports: Fundamentals of signal & video analysis
• 5XPB0 Nano devices and integration if course 5CCA0 has also been chosen as a core course or elective

**Elective courses (via Master Marketplace)**

2.4 Professional Development

Professional Development consists of the courses listed below. These courses are mandatory.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>EC</th>
<th>Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>5CKB0</td>
<td>Tutoring and Coaching*</td>
<td>2.5</td>
<td>2,4</td>
</tr>
<tr>
<td>5CKF0</td>
<td>Research set-up</td>
<td>2.5</td>
<td>1,3</td>
</tr>
</tbody>
</table>

*Formerly known as Projectmanagement*

Planning in the right column indicates the quarter in which the course will be offered.

2.5 Internship

**Purpose of internship**

An internship (15 EC) is a small research project which contributes to the research of the supervising group. The internship is an orientation within the area of electrical engineering. The internship is also the ideal opportunity for an international and/or industrial experience. An internship of 15 EC takes 420 hours. You choose an internship within one of the nine research groups of Electrical Engineering. It is encouraged to do the internship in another research group as you have chosen for your specialization. Note that the internship project should differ from the graduation project.

An internship is supervised by a staff member of the department of Electrical Engineering. It may be carried out within the department (internal), outside it (external), or as a combination. For a (partially) external internship, an external supervisor is also needed for daily supervision. The EE staff member, however, remains formally responsible for the internship. You can extend the internship with an additional 5 EC from your electives (SI005), resulting in 140 hours additional time.

For the internship, specific [Examination Regulations](#) rules apply. To make sure all prerequisites are fulfilled, you need to fill out an internship contract before you start the internship. The internship contract should be filled in and signed together with your internship supervisor and handed in at the Center for Student Administration (CSA) EE, Flux 0.125.

It is not necessary to register for an internship or the internship extension through Osiris. The Center for Student Administration EE will register you after the internship contract is handed in.

For non-EU/EEA-students doing an external internship in the Netherlands, an additional internship agreement (the NUFFIC Training Agreement) is mandatory. This training agreement can be downloaded from the [NUFFIC site](#). Dutch law requires that copies of the agreement are kept by both the internship
provider and TU/e. You can find more information at the Study In Holland-website. The training agreement should be signed by Mrs. Jolie van Wevelingen, managing director of the departments of Electrical Engineering and Applied Physics. Please, hand in a printed version of the training agreement to Mrs. Monique Hunck, Flux 0.158. The signed agreement will be ready for you the next day.

HBO-graduates who follow the master program of Electrical Engineering for HBO-graduates do a shorter internship of 10 EC. HBO-graduates have to do the internship internally within the research group; they are not allowed to go outside the faculty or abroad. Furthermore, HBO-graduates are not allowed to extend the internship.

Finding an internship

To find an appropriate internship, check the Master Marketplace, an online platform where you can browse through available internship projects of our research groups or address one of our staff members, e.g. from the table below, and discuss with him or her what you would like to do, where and when. The better you know your preferences, the more likely it is that one of our staff may be able to find the right project for you. Check the group’s website (click the group name in the table below) to find out about the research activities you can take part in with your internship. If you try to find an internship in a specific company, ask the company for existing research contacts with the EE department and contact these. If you wish to go to a specific country, contact the international coordinator: Exchange.EE@tue.nl.

Finalizing the internship

After the internship is finished, it is mandatory to hand in an internship report and give a presentation on your topic. Specific details about this report and presentation are determined in the internship contract. The Professional Skills academic writing and presenting scientific information are integrated in the internship assessment. In case of insufficient results extra training by means of SkillsLab workshops or trainings on Academic Writing and/or Presenting can be advised.

Internship staff contacts

<table>
<thead>
<tr>
<th>Group</th>
<th>Contact</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>W.H.A. Hendrix</td>
<td>FLX 5.135</td>
</tr>
<tr>
<td>ECO</td>
<td>J. Hakkens</td>
<td>FLX 9.093</td>
</tr>
<tr>
<td>EES</td>
<td>H.P. Nguyen</td>
<td>FLX 2.078</td>
</tr>
<tr>
<td>EM</td>
<td>S. Kuijlaars</td>
<td>FLX 9.068</td>
</tr>
<tr>
<td>EPE</td>
<td>T. Swanink</td>
<td>FLX 2.110</td>
</tr>
<tr>
<td>ES</td>
<td>M. de Mol</td>
<td>FLX 4.131</td>
</tr>
<tr>
<td>IC</td>
<td>M. v.d. Heuvel</td>
<td>FLX 7.097</td>
</tr>
<tr>
<td>Phl</td>
<td>J. Levering</td>
<td>FLX 9.068</td>
</tr>
</tbody>
</table>
2.6 Graduation project

The graduation project is a 45 credit research project on a topic related to Electrical Engineering, supervised by a staff member of the department of Electrical Engineering. It can be carried out in any form and in any location agreed upon by student and supervisor. A student is allowed to start the graduation project if at most 10 credits of his electives are still open and the rest of the program is completed. Before starting the graduation project, a student and his supervisor sign a contract which specifies project details and summarizes study progress so far. A graduation project may be preceded by lab trainings in order to be able to safely handle equipment and emergency situations.

Halfway evaluation

The progress and intermediate results will be evaluated on a halfway presentation and a halfway report. For the evaluation of the halfway presentation and report a halfway evaluation form is being used on the categories: specialization, research and design, execution, report, presentation and defense. The Professional Skills academic writing and presenting scientific information are integrated in the halfway evaluation. In case of insufficient results extra training by means of SkillsLab workshops or trainings on Academic Writing and/or Presenting can be advised.

Final assessment

The final assessment is based on the final presentation and the written report in the format of a paper. The assessment is done by a graduation committee which is appointed by the examination committee before the halfway evaluation takes place. For the assessment of the final presentation an assessment form is being used on the categories: specialization, research and design, execution, report, presentation and defense. The assessment of professional skills that are completed during graduation are part of the assessment of the graduation project.

For non-EU/EEA-students doing an external graduation project in the Netherlands, an additional graduation agreement (the NUFFIC Training Agreement) is mandatory. This training agreement can be downloaded from the NUFFIC site. Dutch law requires that copies of the agreement are kept by both the internship provider and TU/e. You can find more information at the Study In Holland-website. The training agreement should be signed by Mrs. Jolie van Wevelingen, managing director of the departments of Electrical Engineering and Applied Physics. Please, hand in a printed version of the training agreement to Mrs. Monique Hunck, Flux 0.158. The signed agreement will be ready for you the next day.
2.6.1 Finding a graduation project

You can find a graduation project in the Master Marketplace, an online platform where you can browse through available graduation projects of our research groups. In the Master Marketplace, graduation projects are continuously updated throughout the year.

2.6.2 Starting the graduation project
The graduation contract

Before you can start the graduation project, you have to fill in and sign the graduation contract. A graduation contract is a formal contract between student and supervisor that specifies details of the graduation project such as the research group where the graduation project will take place, project details like project description, duration and other arrangements, and the study progress overview. You can ask for a concept graduation contract by sending a request by e-mail to the Center for Student Administration (CSA) EE.

Study progress overview

The study progress overview lists all courses you have done so far and what courses you still miss. The study progress overview is also your final and definite program of examinations which defines all your electives and other study components, including the graduation project as defined in the OER (article 3.6).

The Examination Committee will check if you meet the criteria for starting the graduation project (i.e. a maximum of two electives open and the rest of the program completed). If you meet these criteria, you will receive the concept graduation contract by e-mail which you can then fill in together with your supervisor. After signing of the graduation contract by both you and your supervisor, you can hand in the graduation contract at the CSA EE in Flux 0.125 or send a digital copy to the Examination Committee EE. After the graduation contract is handed in, you can start your graduation project.

Duration of the graduation project

For students from generations 2018 and later (starting from September 2018), the duration of the graduation is 32 weeks full-time without breaks (45 EC). For students from previous generations (2015, 2016 and 2017), the duration of the graduation project is 28 weeks full-time without breaks (40 EC). The graduation contract should clearly specify the start and end date of the graduation project.

2.6.3 Halfway through the graduation project
The graduation committee

In order to assess and grade the graduation project, the Examination Committee appoints a graduation committee. The graduation committee consists of three voting members and one or two non-voting (advisory) members. The EE Examination Regulations (see Appendix 8b) stipulates strict rules regarding the setup of the graduation committee.
The graduation committee studies the half-way report, attends the half-way presentation and presents her remarks and findings to the student and supervisor by means of the Evaluation Form Halfway Graduation Project EE (see Downloads). At the end of the graduation project, the graduation committee assesses and grades the graduation work using the Assessment Form Graduation Project EE. During the half-way evaluation as well as the final assessment, the following five aspects are taken into account (each with an equal weighting factor):

- Specialization
- Research and design
- Execution
- Report
- Presentation and defense

After the half-way evaluation and after the final assessment, the graduation committee sends the appropriate forms to CSA EE in Flux 0.125.

The half-way presentation
Halfway through the graduation project, there will be an evaluation of the progress of your graduation project where you have to write your results up till then in a paper and present them during the presentation. After the presentation, you have to defend your work by means of answering questions from the graduation committee. From this evaluation you will get feedback which you can then use to improve your results for the final assessment: the graduation defense. You will also receive feedback on your professional skills on academic writing and presenting scientific information which you can also use to improve your professional skills. In case of insufficient results extra training by means of SkillsLab workshops or courses on Academic Writing and/or Presenting can be advised.

2.6.4 Completing the graduation project
The graduation paper
The graduation project is concluded by writing a graduation paper between 8 to 12 pages (conform IEEE publications format), which describes the project and its results, and is ready to be submitted as a regular contribution to a periodical.

Apart from your supervisor and the graduation committee, the graduation paper should also be send by e-mail to CSA EE ten working days before the planned graduation committee presentation. Please use this title page for your paper.

The graduation defense
After the graduation project has finished within the designated deadline, you have to present and defend your graduation work to the graduation committee. At the end of the meeting, the graduation committee assesses and grades your graduation work using the Assessment Form Graduation Project EE. The final grade of the graduation project shall be rounded to the nearest half grade on a scale of 0 to 10. The graduation project is considered successfully completed if it is assessed with a final grade of 6 or more. The graduation committee may nominate you for the classification Cum Laude/with distinction if your
final grade is 9.0 or more.

Delayed completion

In exceptional cases, it may be necessary to extend the graduation project period. The extension can be done by at most two months. The Examination Committee needs to be informed of this extension before the end of the original graduation period. If the extension will be more than two months, a new graduation contract must be submitted to CSA EE, for which an approval of the Examination Committee is needed.

2.6.5 Graduation formalities
TU/e Code of Scientific Conduct for the Master’s Thesis

On completion of the graduation project, you have to fill in the TU/e Code of Scientific Conduct for the Master's Thesis to declare that the thesis has been carried out in accordance with the rules of the TU/e Code of Scientific Conduct.

Handing in the Assessment Form Graduation Project EE

The assessment form should be handed in (either by the graduation supervisor, the secretary of the research group or another representative of the graduation committee) at the CSA EE in Flux 0.125 at least 10 working days before the next Examination Committee meeting takes place. Furthermore, all other results (exams, internship) should be known and registered in Osiris 10 working days before the Examination Committee meeting as well.

Registering for the Examination Committee meeting

In order to graduate you need to register through OSIRIS for the final Examination Committee meeting. (In OSIRIS, on the Progress Tab, click Qualification Request) The closing date for registration is about four weeks before the Examination Committee meeting. For exact data, see the Graduation deadlines. Registration always refers to the first upcoming session of the Examination Committee. You do not have to be present at the meeting.

Terminating your enrollment from TU/e

When all parts of the curriculum are finished and you have registered for the Examination Committee, you can terminate your enrollment from TU/e. Your enrollment will not be terminated automatically during the academic year. In order to terminate your enrollment before August 31 and receive a refund of your tuition fee, you must submit a request to that effect. You can find all information regarding the termination of enrollment procedure here.
Meeting of the Examination Committee

During the Examination Committee meeting, the Examination Committee determines the final grade for your graduation project (based on the Assessment Form Graduation Project EE) as well as the other study components obtained during your master.

Cum laude

The Examination Committee may award the classification “cum laude” under the following conditions:

For students who started their degree program on or after September 1, 2019:
- If you achieve a weighted mathematical average (based on credits) that is a unrounded 8.0 or higher in relation to the study components taken by students that belong to the program of examinations, with exception of the graduation project,
- If you have a grade of 9.0 or higher for the graduation project, and
- None of your study components belonging to the program of examinations has a final grade lower than a 6 and
- You must finish the final examination within 32 months of the commencement of the degree program.

The examination committee may deviate from this latter requirement in special cases.

For students who started their degree programs before September 1, 2019 under the following conditions:
- They achieve a mathematical average of 8.0 or higher for the assessments of study components that belong to the program of examinations, and
- A grade of 9.0 or higher for the graduation project, and
- None of the study components belonging to the degree program may have a grade lower than a 6.0.

When you meet the requirements for classification with distinction, the Examination Committee invites your graduation supervisor or another representative from the graduation committee to explain why you should obtain the classification with distinction. Based on this hearing, the Examination Committee makes her final decision.

2.6.6. After the graduation

After the Examination Committee has decided that you have graduated, you will receive an e-mail from the Examination Committee. You can also check your graduation status in OSIRIS.

"Search year"/Orientation year

After graduation, non-EU/EEA-graduates can apply for an orientation year, also called “search year”. With this residence permit, the graduate is allowed to stay in The Netherlands for at most 1 year to find
a job. You should hand in the application at IND yourself. You can find more information regarding the “search year” via the NUFFIC website. The following websites will provide you with more detailed information about the search year residence permit:

- https://www.hollandalumni.nl/orientationyear/
- https://ind.nl/en/work/Pages/Looking-for-a-job-after-study-promotion-or-research.aspx

If you have more questions regarding the application for the “search year”, you can contact Ms. Loes Buijsen.

2.6.7 Graduation ceremony

Approximately two weeks before the graduation ceremony, you will receive an e-mail from CSA inviting you to the graduation ceremony. You can find the dates of all master graduation ceremonies from Electrical Engineering here. During the ceremony, you (as well as your fellow master graduates) will receive your diploma from your graduation supervisor. After the ceremony, you and your invitees are invited for drinks. If you want, you can also engrave your name and graduation year in the glass windows of our TU/e Alumni Avenue before the ceremony.

Downloads
- Evaluation Form Halfway Graduation Project EE
- Assessment form Graduation Project EE
- Title page graduation paper

3. Coaching and Professional Skills

You will be the future proof academic engineer, that is, an engineer who is able to make a significant contribution to society in the future. Your Master’s program will prepare you for this future and the development of professional skills are a major part of this.

Today’s careers are built on a much broader spectrum than a diploma only. For you as a student, just acquiring the knowledge is no longer sufficient.

Nowadays, companies demand more and more of their future employees. Professional skills, like writing, presenting and teamwork, are essential to become a successful researcher, designer, teacher, entrepreneur or manager.

How can I develop my professional skills during my Master’s program?

You start with a well-defined personal development plan. This development plan should include curriculum choices, professional and academic skills you want to develop, aimed at your career path after graduation.
TU/e Diagnostic Test of Professional Skills

To get you started on your development plan, the TU/e Diagnostic Test of Professional Skills (a skill assessment) gives you more insight on the level of your skills. You discuss your personal development plan with your mentor.

During your Master’s degree you will execute and review your personal development plan. You have ample opportunity to develop your skills. Think of courses, internships, your final project, but also during extracurricular activities in study associations, using the TU/e SkillsLab, alumni mentors from the Alumni Coach Network, the TU/e Career Academy and other My Future partners.

CV with impact

You can show your accomplishments in your CV. This will show your future employees how you have worked on the development of your professional skills. If you want to know more about how to create a CV with impact, check out the website of the TU/e Career Academy.

4. Mentoring

All master students of Electrical Engineering are assigned a mentor. The mentor is a lecturer who belongs to the Scientific Staff. The mentor guides the student since the start of his/her master’s phase until the student begins with the internship and graduation project. The mentor supervising the student belongs to the research (capacity) group of the specialization direction chosen by the student.

Before you make an appointment with your mentor, you have to:

- Complete the four tests of the TU/e Diagnostic Test of Professional Skills
- Setup a Personal Development Plan (PDP) based on the results of these tests
- Decide on your specialization/research group of preference
- Choose your specialization electives and free electives

With your mentor you have to:

- Discuss the results of the four tests of the TU/e Diagnostic Test of Professional Skills
- Discuss your Personal Development Plan (PDP) on how to (further) develop your professional skills
- Discuss your choice of specialization electives and free electives
- Sign the TU/e Code of Scientific Conduct in the presence of your mentor
- Discuss when you did not choose to include a minimum of 15 credits worth of international experience in your program of examinations.

You have to make an appointment with your mentor to discuss the abovementioned items. The appointment must take place two weeks before the registration deadline of second quarter courses in the first quarter. The graduation supervisor is responsible for the course package, the graduation committee bears the final responsibility for the graduation assessment.

The table below shows the mentors for each research group.
5. Examination schedules

Exam schedules for all courses you are enrolled in can be found in My Timetable.

6. Graduation deadlines

In Osiris you can subscribe yourself for the upcoming examination session. You can do this by clicking on Progress and then Qualification request.

Below you will find the data of the examination committee meetings. You do not have to be present at the meetings. Please keep in mind the closing dates for subscribing in Osiris. At the time you subscribe for the exam you might expect to receive some credits. When the meeting takes place all the necessary credits need to be processed. The total amount of credits in the master phase is 120 credits.

When you have graduated you will receive an invitation for the ceremony in Luna at the campus.

### Final Examination Schedule

<table>
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<tr>
<th>Examination meeting</th>
<th>Closing date in OSIRIS</th>
<th>Master Ceremony (Hubble, Luna)</th>
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<tr>
<td>27 June 2019</td>
<td>Thursday 30 May 2019</td>
<td>Tuesday 8 October 2019 14:00 and 16:00</td>
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<tr>
<td>29 August 2019</td>
<td>Thursday 1 August 2019</td>
<td>Tuesday 8 October 2019 14:00 and 16:00</td>
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<tr>
<td>26 September 2019</td>
<td>Thursday 29 August 2019</td>
<td>Tuesday 8 October 2019 14:00 and 16:00</td>
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<tr>
<td>31 October 2019</td>
<td>Thursday 3 October 2019</td>
<td>Tuesday 19 November 2019 14:00 and 16:00</td>
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<tr>
<td>28 November 2019</td>
<td>Thursday 31 October 2019</td>
<td>Tuesday 21 January 2020 14:00 and 16:00</td>
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### Examination Committee

The Board of Examiners is the authority to safeguard the standard of the degree program, including matters such as the appointment of examiners, testing and fraud, and all other aspects that are necessary to ensure that students who are awarded a degree have attained the outcomes for the relevant programs. All regulations can be found in the [Examination Regulations of the Electrical Engineering department](#).

One of the tasks of the Board of Examiners is granting exemptions and the approval of study programs.

Visit the website of the [Examination Committee of the Electrical Engineering department](#) for more information.

Students can send a request to the [Examination Committee](#). Requests to the Examination Committee need to be submitted Friday before the next meeting at the latest.

Students may appeal a decision of the Examination Committee. Their appeal should be addressed to College of Appeals for Examinations (CBE) of the Eindhoven University of Technology within six weeks after the decision is made.

**Contact**

Examination Committee EE  
E: Examination.Committee.EE@tue.nl

**Downloads**

- [Fraud Policy](#)  
- [Exam Framework](#)  
- [Central Examination Regulations](#)  
- [OER Program and Examination regulation Master EE 2019-2020](#)  
- [Examination Regulations EE 2019-2020](#)
8. Program Committee

The Program Committee (Opleidingscommissie) is an important body in which students and lecturers discuss the quality of education (BSc and MSc within Electrical Engineering) and the way in which it is organized. In this context, the Program Committee provides advice on the design of the curricula, quality assurance and policy-making.

The Program Committee consists of an equal number of student and lecturer members, and grants consent to the dean in regard to sections of the Education and Examination Regulations, and advises the program directors on the curriculum. The statutory task of the Program Committee is to provide advice on promoting and safeguarding the quality of the degree programs (Section 9.18 WHW). The Program Committee is a representative advisory body with the right of consent in regard to the program-specific sections of the Education and Examination Regulations.

The Program Committee actively contributes to educational innovation and enhancement by taking the initiative to place topics on the agenda. The topics might specifically concern the degree programs for which the Program Committee has been established as well as cross-degree programs, topics such as a uniform procedures in the Bachelor College and Graduate School. For these topics a Generic Program Committee has been conducted with representatives of all local Program Committees.

Program Committee meetings take place once every month.

Visit the website of the Program Committee of the Electrical Engineering department for more information.

Contact

Secretariaat Electrical Engineering
T: +31 40 – 247 5427
E: Secretariaat.E@tue.nl

9. TU/e Honors Academy

Do you like challenges? Is delivering excellent results what you aim for? Would you like to do scientific research or solve societal problems? Would you like to make a giant leap forward in your professional as well as personal development? Do you love working under pressure, with the strictest of deadlines? Would you like to build a professional network? Or is entering a prestigious Master abroad your ultimate dream? Then joining the TU/e Honors Academy might be just the thing for you.

The TU/e Honors Academy offers a varied choice of excellence tracks for bachelor and master students. The overall goal is to prepare you for personal leadership as well as scientific, societal and/or industrial leadership in a society that is affected exponentially by changes and developments.
10. Prior bachelors

Direct access

Students with a TU/e Bachelor's degree in Electrical Engineering or a TU/e Bachelor's degree in Automotive Technology are directly admitted to the Master's program of Electrical Engineering. The following Bachelor’s degrees also provide direct access to the Master’s program:

- Bachelor of Science in Electrical Engineering from Twente University of Technology (UT)
- Bachelor of Science in Electrical Engineering from Delft University of Technology (TUD)

Visit the TU/e Admission and Enrollment website for more information about admission and other requirements.

Other TU/e Bachelor’s degrees

Students with a TU/e Bachelor's degree in Psychology and Technology, domain Robotics, a TU/e Bachelor's degree Applied Physics, a TU/e Bachelor's degree Biomedische Technologie or a TU/e Bachelor's degree Mechanical Engineering have to follow a pre-Master's program first. Upon completion of this pre-Master's program, they are admitted to the Master's program of Electrical Engineering. For more information about the pre-Master's program, please visit the Pre-Master Electrical Engineering website.

Other Dutch university Bachelor's degrees

Students with a Bachelor of Science from another Dutch university, please visit the TU/e Admission and Enrollment website for more information about admission and other requirements.

University of Applied Science Bachelor's degrees

Students with a Bachelor of Science Electrical Engineering from a Dutch University of Applied Science (hbo) have to do the standard pre-Master’s program Electrical Engineering first. Upon completion of this pre-Master's program within one academic year, they are admitted to the Master’s program of Electrical Engineering for hbo Bachelors. Visit the TU/e Admission and Enrollment website for more information about admission and other requirements. For more information about the pre-Master's program, please visit the pre-Master Electrical Engineering website.

International Bachelor's degrees

Students with an international Bachelor degree Electrical Engineering, please visit the TU/e Admission and Enrollment website for more information about admission and other requirements.

11. International Experience

If you wish to study abroad you will have plenty of opportunities. You can do the internship and/or graduation project outside of the Netherlands. They can be arranged with a great many of universities
and companies abroad via the research contacts of the staff of our own Electrical Engineering Department. If you are interested talk to your graduation supervisor about using this opportunity. Many of our staff have excellent connections with researchers and companies abroad.

You can also go abroad for some elective course work, although that is not so efficient as only 15 EC of your electives are completely free to choose. A way to deal with this is to combine the internship at a university with a couple of elective courses at this same university.

There are many bilateral agreements with ERASMUS partners in Europe (Belgium, Bulgaria, Germany, Greece, Italy, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Turkey and UK).

The TU/e also has an agreement with the National University of Singapore to exchange some 10-12 students per year. Also listed is the SENSE program, a two year dual degree program aimed at developing the knowledge in Smart Grids.

Language

Wherever you go it is much more pleasant if you can speak the language, at least enough to get by on a daily basis. So take the time to work on this. The Language Center (CLIC) at the TU/e has many facilities to help you with this.

How to organize this?

Contact Mrs. Petra Siemons, the Erasmus/study abroad coordinator for AP and EE, Flux 0.125, phone +31 40 - 247 2182, Exchange.EE@tue.nl

It is important to allow enough time to prepare well. There are many sources of information, for example the International Relations Office at the TU/e. Get into contact with EE students who already went abroad previously. Very useful information is found on this ESA page.

12. Regulations

The rules for the master program have been written down in two documents:

The Program and Examination Regulations & The Regulations Examination Committee.

Program and Examination Regulations (OER in Dutch)

The Program and Examination Regulations for a program contain clear and sufficient information about the program, making it the basic document for both students and teachers.

Subjects covered by the OER include:

- the content of the program and the associated final examinations, the number and sequence of other examinations and the times when these can be taken
- the type of examination (oral, written or other types of examination)
The Higher Education and Research Act (Wet op het hoger onderwijs en wetenschappelijk onderzoek) draws a distinction between program and examination regulations and examination committee rules and guidelines. Subjects regulated by the TU/e Examination Committee Rules and Guidelines (Examination Regulations) include:

- compilation Examination Committee
- procedures Examination Committee
- tasks Examination Committee
- rules relating to quality assurance of testing and exams
- rules relating to measures taken in the event of fraud by examinees
- rules and guidelines relating to testing and exams
- compensation regulations
- graduation regulations

12.1 Exemptions

The Examination Committee shall only process individual requests for exemptions. The request must have a detailed motivation, proof of having attained the study component, the subject description, the study materials, the test made, an official grade list, and advice from the teacher who is responsible for the subject for which exemption is being requested. The above shall be considered in the decision making, in which previous decisions shall be taken into account.

Exemptions are only granted if the student can provide persuasive evidence from which it is clear he/she meets the learning objectives of the study component in question. The advice of the teacher is taken into consideration.

The following limitations apply for the Master program:

- No exemptions are possible: for core courses no exemptions are possible, other core courses must be chosen. For Specialization Path courses and also other certification courses, if the relevant teacher agrees with the fact that the student already possesses the knowledge and skills, a free elective must be chosen instead. For free electives no exemption can be given, instead another course must be taken.
- Exempted courses cannot be listed as elective.
- The graduation project cannot be exempted.
12.2 Transitional arrangements
Master’s program

Students who started their Master’s program in 2014-2015 or earlier, will be transferred to the revised Master’s program of September 2015. Depending which part of the old Master’s program already has been completed, the examination committee will compose an adapted program.

Professional Skills
Transitional arrangements for the professional skills are represented in the table below:

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For students of generation 2017-2018 or earlier the following arrangements apply:

- Students who passed Academic writing skills and Intercultural Communication, Cooperation & Integration will have graduation project of 40 ec.
- Students who did not pass Academic writing skills and Intercultural Communication, Cooperation & Integration will have a graduation project of 45 ec.
- Students who did not pass Academic writing skills will have a graduation project of 40 ec. The academic writing skills are integrated in the graduation project. In order to receive the credits they need to register for SCKC0.
Students who did not pass Intercultural Communication, Cooperation & Integration will have a graduation project of 40 ec and they choose an elective of 2.5 ec (or 5 ec).

13. Academic advisor

The academic advisor will advise students (either on request or on the advisor’s own initiative) on all the aspects of the degree program, and will ensure, partly based on the student’s study progress and whenever necessary, adequate referral to the competent bodies of TU/e, to student advisors of the ESA or TU/e confidential counselors. The academic advisor will inform students who fall behind in their studies of the opportunities to receive extra support or measures that may need to be taken to minimize further delay. The academic advisor for the master students of Electrical Engineering is Harald van den Meerendonk.

Contact
Academic Advisor MEE
E: Academic.Advisor.MEE@tue.nl

14. Quality Assurance

Providing high quality education is of utmost importance to the department of Electrical Engineering. To maintain the quality it is essential that every educational component is subject to structural and recurrent evaluation.

Course evaluations

The most common method of evaluation is by conducting surveys. Courses and projects are evaluated with digital surveys in EvaSys on a yearly basis. The results of the surveys enable us to collect the thoughts and opinions of students and give them the opportunity to provide feedback on their education. Educational components that are new will be evaluated for 3 consecutive years using surveys until they reach a sufficient level (see quality assurance plan for the criteria). Components that have reached a sufficient level are evaluated once every 3 years (1 year evaluation, 2 years no evaluation). The results of the surveys are evaluated by several stakeholders, such as the departmental committee, exam committee, quality assurance officer, the responsible lecturer/teacher, chairmen of research groups and the departmental board. If the course scores insufficient, an improvement plan will be conducted together with the responsible lecturer/teacher for the next round. The following year these components are monitored based on the evaluation and the improvement plan. After this the cycle of quality assurance starts again.

The educational program as a whole is also subject to yearly evaluations, organized on a central level by the TU/e or other interested external parties (VNSU).

Additional Quality Assurance evaluation methods

In addition to the surveys, the department makes use of other more direct methods of evaluation for educational components. Student meetings are organized for bachelor and master students (year
councils) on a regular basis. This way students can provide direct feedback on their educational program to the staff.

Compared to surveys, where evaluations take place at the end of the educational component, these types of evaluation methods are powerful tools for intermediate evaluations. For an overview of our evaluation instruments, see the quality assurance plan.

Quality Assurance officer

A quality assurance (QA) officer is appointed by the department to maintain all the processes related to quality assurance and ensures that all responsible parties receive the information necessary to perform their duties. For example the departmental QA officer maintains a record of course evaluations and determines which courses require evaluation, which policy should be used and communicates with the central QA officer of ESA on practicalities regarding EvaSys surveys. In addition to this, the QA officer attends meetings with other departmental QA officers to discuss general matters and developments related to quality assurance.

Accreditation

Based on the framework of accreditation developed by the Dutch-Flemish Accreditation Organisation (Dutch abbreviation: NVAO) all educational programs are subject to periodic evaluation by a visiting panel. Accreditation is a formal decision that the educational program complies to the quality demands formulated by the NVAO and that the graduation diploma is recognized as valid by the government. Accreditation lasts for 6 years and the current accreditation decision for the educational programs of Electrical Engineering lasts until 27th of April 2023.

Downloads
Quality assurance plan EE

15. Contact

Departmental Board
prof.dr.ir. A.B. Smolders, dean
prof.ir. A.M.J. Koonen, vice-dean
drs. J.C. van Wevelingen, managing director

Program directors
ir. S. Hulshof, Bachelor
dr. ir. H. de Waardt, Master, PDEng, PhD

Manager Education and Student Affairs EE/AP
dr.ir. R.R. Trieling

Center for Student Administration Electrical Engineering (CSA EE)
Flux 0.125
Office hours: Monday - Friday 12:00 - 14:00 hrs.

Every first working day of each quarter (September 2nd, November 11th, February 3rd, April 20th) CSA EE will also be open from 08.30 till 09.30 hrs.

Contact person Education guides EE
C.R. van Kesteren MA

16. A-Z

A
Absents during an exam or obligatory practicum - when you are no able to attend due to special circumstances, you need to report this within 24 hours to your academic advisor.

C
Canvas - You can use MyTU/e to access Canvas, the learning management system. In Canvas you’ll find course information, practice tests, assignments, slides and more. You use Canvas during your education period, and to prep for exams. For any questions and comments, please contact the helpdesk by mailing ESAhelpdesk@tue.nl or calling 3826.

Center for Student Administration (CSA EE) - opening hours from Monday till Friday from 12.00 till 14.00 hrs, location Flux 0.125. Every first working day of each quarter (September 2nd, November 11th, February 3rd, April 20th) CSA EE will also be open from 08.30 till 09.30 hrs. Outside opening hours you can email CSA.EE@tue.nl. Forms can be put in the postbox CSA near the reception desk of Flux.

Complaints – When you have a complaint about courses, grants, teachers, the way of testing of examinations, you can first contact our academic advisor. In case of complaints about, for example a decision of the examination committee or an examiner, admission to the Master Program, you can appeal to the Examination Appeals Board. For more information check our study guide.

Confidential advisor - TU/e currently has three confidential counselors who hold an independent position and enjoy the protection of the student.

E
Examination Committee – The Examination Committee is, among other things, responsible for the quality of the exams and final examinations. If you have a request, compliant or comment, you can send an e-mail to EE Examination Committee: Examination.Committee.EE@tue.nl

H
Honors program – In the TU/e Honors Academy various Honors Tracks have been launched, addressing major societal and scientific questions and challenges
I

Illness during an exam- When you are not able to attend an exam due to illness, you need to report this within 24 hours to your academic advisor.

IEEE - The Institute of Electrical and Electronics Engineers, Inc. is an international organization by and for academic engineers in the field of electrical engineering. Worldwide, there are more than 330,000 members. IEEE SBE is the student branch at TU/e. It is the most active branch of IEEE in Europe. Every year, they organize a wide range of activities. With this, the Student Branch Eindhoven prepares students socially, culturally and professionally for their future. More information on IEEE SBE, its activities and memberships can be found on the IEEE student branch website.

M

MyTimetable - MyTimetable generates your personal schedule, which can be used by students and lecturers. It’s possible to synchronize with all regular agenda-applications, so you can use your own preferred system to view your schedule. The schedule in MyTimetable is adjustable to your own needs, and schedules of individual courses can be viewed. The tutorial can be found here. For questions you can contact roosters@tue.nl.

MyTU/e – MyTU/e provides an easy-to-use, personalized and effective system for you to manage everything you need to make a success of your learning and working at TU/e. this cloud based system provides you with everything you need in one place and with notifications to keep you updated. MyTU/e will be your go-to app for your learning, education and working experience.

O

OSIRIS - Go to MyTU/e to log into OSIRIS, the student information system that records all student data, from enrollment right through to graduation. Lecturers use OSIRIS to enter grades and check their groups and course information. Students use OSIRIS to view their grades, register for courses and examinations, and to keep track of their progress. For questions about OSIRIS you can contact the helpdesk at 3826 or per e-mail. You can also contact the Center for Student Administration (CSA EE) in Flux 0.125.

P

Program Committee - A Program Committee is an advisory and consultative body at degree program level, instituted by law. The Program Committee of Electrical Engineering covers the bachelor and master programs. The Program Committee consists of an equal representation of both lecturers and students.

Q

Quality Assurance

R

Registering for a course - To participate in courses you need to be registered for the course. This is possible up to 20 working days before the start of the new quarter. If you are not registered for the course, you will not be able to take it. If you do not register for exams, you will also not able to take them. The deadlines for enrollment can be found here.

Registering for exams after the registration period has passed
Students who fail to register for an exam within the period specified shall not be allowed to participate in the exam, unless the students have paid administration costs totalling €20 per study component no later than five working days before the examination period. After payment of the administration costs the students are immediately registered.

**Student statute** – As a student you have rights and obligations. You can read about this on our study guide.

**Student body** - The Student Body (SB) is the center of education participation at the department of Electrical Engineering. SB is run by three students of the department. Any student who has suggestions, complaints, or questions about the education can contact the SB.

**Student teams** – TU/e is a breeding ground for young engineers who address societal challenges by carrying out projects. Projects in which education, innovation and entrepreneurship are combined with surprising outcomes. TU/e counts several student teams which address challenges in the fields of energy, health and smart mobility.

**Thor** The study association Thor focusses on the enrichment of the students of Electrical Engineering and Automotive Technology at TU/e. In order to achieve this goal, activities are organized for and by students