Master Kick-off 2019

Master’s program Electrical Engineering  27 August 2019

Harald van den Meerendonk, Academic Advisor master students Electrical Engineering
Program

Morning 10:30 – 12:00 Flux 1.02

• 10:30 – 11:00 Everything you always wanted to know about being a master student
  11:00 – 12:00 Master’s program of Electrical Engineering, Special Master’s tracks
• 12:00 Return to Markthal

Afternoon 13:00 – 15:00 in Flux 1.02

• 12:50 – 13:00 Return from Markthal to Flux 1.02
• 13:00 – 14:50 Pitches from nine research groups on specialization/elective courses
  Strongly recommended for all master students
• 14:50 – 15:00 Back to Atlas
Morning program 10:30 – 12:00

• 10:30 – 11:00 Choosing your specialization, Master Market Place, Mentoring and Professional Skills, International Experience Joint degree, Honors Program IND Study Progress Check, Registration for courses and exams, Health and Safety Risk Management training Digital education guide Academic Advisor Master associations EIR, Odin, Waldur, IEEE

• 11:00 – 12:00 Master’s program of Electrical Engineering Special Master’s tracks
### Afternoon program 13:00 – 15:00 in Flux 1.02

<table>
<thead>
<tr>
<th>Time</th>
<th>EM</th>
<th>PHI</th>
<th>ECO</th>
<th>CS</th>
<th>EPE</th>
<th>EES</th>
<th>IC</th>
<th>ES</th>
<th>SPS</th>
<th>IPI</th>
<th>Back to Atlas reception</th>
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<tr>
<td>13:00 – 13:10</td>
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</table>

Master Kick-off 2019
Pre-master/SENSE/PIXNET-students

Are you a pre-master student?
• Pre-Master Kick-off on 2 September 2019 at 12:45 in Flux 1.03/1.04

Are you a SENSE student?
• Parallel session in Flux 3.256 by Vladimir Cuk

Are you a PIXNET student?
• Separate program, check with Nicola Calabretta

Are you a former Bachelor EE/AT student?
• Master’s program of EE was explained @ XYM 2019; ins and outs of being a master student

Are you a new master student EE?
• Ins and outs of being a master student AND Master’s program of EE
Introducing …

Huug de Waardt
• Graduate Program Director Electrical Engineering

Harald van den Meerendonk
• Academic advisor master, pre-master and HBO-TOP students Electrical Engineering
Choosing your Specialization

• Choose your specialization from our nine research groups

• Register your specialization in the Master Market Place

• Choose three core courses depending on your specialization, see digital education guide

• Register these three core courses in OSIRIS before 6 September 2019 at 23:59h for external master students

• Register your specialization in OSIRIS as well
Master Market Place

• Online tool for registration of specializations and overview of available internship and graduation projects

• Why? Get to know in advance how many master students choose a specific research group

• Research groups can guarantee sufficient graduation projects and scientific staff

• Open as of 2 September 2019 for all new master students

• Register preferred specialization before 15 September in MMP. Can always change later
Registration stats

Showing only data for cohort 2018.
Showing 88 registration, of which 3 approved.

Capacity groups

<table>
<thead>
<tr>
<th>Capacity groups</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>EES</td>
<td>19</td>
</tr>
<tr>
<td>SPS</td>
<td>15</td>
</tr>
<tr>
<td>ES</td>
<td>13</td>
</tr>
<tr>
<td>IC</td>
<td>11</td>
</tr>
<tr>
<td>EPE</td>
<td>9</td>
</tr>
<tr>
<td>PHI</td>
<td>8</td>
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<td>EM</td>
<td>6</td>
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<tr>
<td>ECO</td>
<td>5</td>
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<tr>
<td>CS</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>88</td>
</tr>
</tbody>
</table>
Master Market Place

• After 15 September, mentors will be informed about students who have selected their research group. Each research group has its own mentor.

• With advice of mentor (see Mentoring), fill in the courses (core, specialization and electives) for your study program in the Master Market Place.

• Submit for approval to Examination Committee (via MMP) before 13 October 2019.

• After approval (via MMP), download your study program as an Excel file, complete the Excel and send it to the SPC.EE@tue.nl.
## Published graduation projects

### Data-driven modelling of interconnected systems for separable controller synthesis
- **Research group**: CS
- **Responsible staff**: m. Lazar
- **Assistants**: Tom Steentjies
- **Specialization Path**: Any
- **End date visible**: None
- **Progress**: Project is being executed

### Modelling of EV emission in the range 2-150 kHz (Elasto)
- **Research group**: EES
- **Responsible staff**: Vladimir Cuk
- **Assistants**: None
- **Specialization Path**: Any
- **End date visible**: None
- **Progress**: Project is being executed

### Controller Synthesis for Switched Systems
- **Research group**: CS
- **Responsible staff**: Tij Donkers
- **Assistants**: None
- **Specialization Path**: Any
- **End date visible**: None
- **Progress**: Not yet started

### Uterine electromyographic monitoring outside pregnancy
- **Research group**: SPS
- **Responsible staff**: Chiara Rabotti
- **Assistants**: Massimo Mischi, Lin Xu
- **Specialization Path**: SPS in 2018-2019
- **End date visible**: None
- **Progress**: Not yet started

### Integrated Optical Alignment sensor for Electronic IC production (1/2)
- **Research group**: PHI
- **Responsible staff**: Erwin Bente
- **Assistants**: Yuqing Jiao
- **Specialization Path**: PHI in 2018-2019
- **End date visible**: None
- **Progress**: Not yet started

### Ageing modeling of lithium-ion batteries
- **Research group**: CS
- **Responsible staff**: Tij Donkers
- **Assistants**: None
- **Specialization Path**: Any
- **End date visible**: None
- **Progress**: Not yet started

### Eco-driving algorithm
- **Research group**: CS
- **Responsible staff**: Tij Donkers
- **Assistants**: Diana Heijnenman - Douma
- **Specialization Path**: Any
- **End date visible**: None
- **Progress**: Project is being executed

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**Master Kick-off 2019**
Low Cost Two-Dimensional Optical Pressure Sensor For Patient Monitoring

By Henrie Van Den Boom

General description

Currently, people suffering from serious sleeping disorders are monitored using expensive camera equipment. Because this equipment cannot be placed in a patient’s home, the patient has to spend one or more nights at a sleep clinic. To reduce costs and increase patient comfort, a system has to be designed which can easily be taken home. A possible implementation is a two-dimensional optical sensor system which can be placed under a mattress which uses a grid of Polymer Optical Fibres.

Polymer or Plastic Optical Fibre (POF) is commonly used for low-speed, short-distance optical data communication. Due to their relatively large diameters of about 1 mm, POFs are easy to handle and allow the use of low precision connectors. Its chief advantage over the glass optical fibre is its robustness under bending and stretching. Polymer optical fibres can also be used for sensing. Systems based on detecting attenuation variation when pressure or bending is applied to the POF are already studied extensively and commercial products are available for various applications. However, a two dimensional pressure detection system using a grid of POF based on only attenuation detection is in principle not possible.

The goal is to design and realize a two-dimensional pressure detection system using a grid of POF and is based on detection of the coupling of optical signals at the crossings of a POF grid. Based on this principle, low cost pressure detection can be achieved at each crossing of the fibre grid individually. A proof of principle system has been realised with encouraging results, but further research and development has to be done to obtain a real time and optimised system. Moreover, this principle can be used for many other applications. For instance it can be used under (or woven into) a carpet to detect walking and falling of elderly persons, which is more privacy-friendly than using for instance video cameras.

We already presented a paper at a conference on this promising subject, see attachment or https://pure.tue.nl/ws/files/88738840/2D_POF_sensor_POF2017_full_paper_final.pdf.

This research is in collaboration with Sleep Medicine Centre Kempenhaeghe, Heeze, www.kempenhaeghe.nl.

Students task description

Within this research subject you can work on:

- Pressure sensitive optical coupling between crossing fibres
- Design and realising a real time data acquisition and control system
- Design and realising the optoelectronics of the system.
Mentoring

Plan a meeting with your mentor

• The mentor belongs to the research group of your preferred specialization. You have to plan a meeting with your mentor yourself before 28 September 2019. Actual meeting can be later but before 13 October 2019

With the mentor, you have to

1. Discuss the results of the TU/e Diagnostic Tests of Professional Skills from SkillsLab
2. Discuss your Personal Development Plan (PDP) on how to (further) develop your professional skills
3. Discuss your choice of specialization electives and free electives
4. Sign the TU/e Code of Scientific Conduct
Mentoring - Professional Skills in the Master

1) TU/e Diagnostic Tests of Professional Skills

- Complete four mandatory TU/e Diagnostic Tests of Professional Skills:
  - SKL00: A Broad Test on Skills
  - SKL10: In-depth Test on Teamwork Skills
  - SKL20: In-depth Test on Presentation Skills
  - SKL30: In-depth Test on Academic Writing Skills

- Complete these tests before the mentor meeting
Mentoring - Professional Skills in the Master

2) Write your Personal Development Plan

- Based on tests results, write your own Personal Development Plan (PDP) containing:
  - Choices within the curriculum, like courses, internship and graduation
  - Professional skills in academic writing, presenting and team work you want to improve
  - Other (academic) skills you want to develop

- Use the results of the Diagnostic Tests and PDP for the mentor meeting

- An example of a PDP is shown on the digital education guide, but a online tool is available through SkillsLab
Mentoring – Choosing electives

3) Discuss your choice of electives
• 15 EC of specialized electives
• 15 EC of free electives

4) Sign the Code of Scientific Conduct (example on the digital education guide)

See digital education guide -> Coaching and Professional Skills:
https://educationguide.tue.nl/programs/graduate-school/masters-programs/electrical-engineering/coaching-and-professional-skills
## Mentoring - Who is who?

<table>
<thead>
<tr>
<th>Research group</th>
<th>Mentor</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>Siep Weiland / Paul van den Hof</td>
</tr>
<tr>
<td>ECO</td>
<td>Oded Raz</td>
</tr>
<tr>
<td>EES</td>
<td>Nikos Paterakis</td>
</tr>
<tr>
<td>EM</td>
<td>Bas de Hon</td>
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<tr>
<td>EPE</td>
<td>Naila Nasibulina</td>
</tr>
<tr>
<td>ES</td>
<td>Marc Geilen</td>
</tr>
<tr>
<td>IC</td>
<td>Marion Matters</td>
</tr>
<tr>
<td>Phil</td>
<td>Erwin Bente</td>
</tr>
<tr>
<td>SPS</td>
<td>Alex Alvarado / Sveta Zinger</td>
</tr>
</tbody>
</table>
Mentoring – more information

See digital education guide -> Coaching and Professional Skills for more information on mentors, Code of Scientific Conduct and SkillsLab:

https://educationguide.tue.nl/programs/graduate-school/masters-programs/electrical-engineering/coaching-and-professional-skills
International experience

• Get at least 15 EC of international experience

• Follow courses abroad
• Internship abroad
• Graduation project abroad
Broadening

Joint Master’s degree program
• 165 EC ≤ #EC ≤ 195 EC
• Graduation project of 60 EC
• For those who are interested, let me know

Honors program
• For motivated students who look for an additional challenge
• Focus: Personal Leadership (5 EC) and Professional Development (15 EC)
• 20 credits ‘on top of’ Master’s degree program
• Information session on 9 September 2019 from 12:45h till 13:25h in the Blauwe Zaal, Auditorium
IND Study Progress Check with resident permit for study

Courses

- Students with a residence permit for study have to pass at least 50% of the maximum number of credits per each academic year to retain their residence permit.
- A study progress check takes place in October/November of the next academic year, on results of the previous academic year.
- A preliminary check will be carried out in February/March to see if you are on track.
- The academic advisor will also check your study progress regularly.
- In case of study problems or insufficient study progress, contact your academic advisor in time.
Registration for courses and exams

Courses

• Register for courses through OSIRIS in time. Check the deadlines (through emails) and AKR procedure!
• Course registration also includes exam registration (only if you are a master student)
• Register for maximum 20 EC per quarter
• For resits, register for exams only

Exams

• With an exam registration, allowed to take the exam
• Withdrawal is possible until 5 working days prior to the exam period
• Register for resits as well (not automatically done)
Registration for courses and exams

Deadlines

• Registration deadline: 20 working days before a quarter
• Missed the deadline? Up to fifteen working days before the next quarter, register and pay €20 administration costs per course -> AKR deadline
• Missed the extended (AKR) deadline as well? Registration not possible

Not a master student yet?

• You can register for courses but not for exams
• Do not forget to register for exams before the next deadline (13 October 2019)
Health and Safety Risk Management Training

All students new to the Flux building

• Training of Health and Safety Risk Management (“ARBO-training”)

• One-off training for 30 minutes

• Presence is mandatory -> attendance list

• Last name starts with A-M: Wednesday 4 September 2019
  Last name starts with N-Z: Friday 6 September 2019

• During the lunch break in lecture hall Flux 1.02 from 12:45h till 13:15h
Digital education guide

All information presented here can be found on the digital education guide:

• Curriculum: courses, internship, graduation
• Mentoring and Professional Skills: SkillsLab, list of mentors
• Examination Committee: Program and Examination Regulations (PER/OER)
• Program Committee
• International Experience
• Forms: Code of Scientific Conduct, internship contract and assessment, graduation assessment and title page
• Quality Assurance
• A to Z
Academic advisor

Academic advisor:

• Advices and helps to improve study progress (practical questions about the Master’s program, study-related questions and problems, study progress, study skills, planning, personal circumstances)

• Problems related to study, stress, study management, career-> referal to study choice advisor, student counsellor, study management advisor, student psychologist, confidential counsellor,

• Meetings and correspondence are always confidential (AGV/GDPR)

• Study progress check after Q1, just to check how you are doing after the first quarter
Academic advisor

If you have any questions, come and visit me in Flux 0.120 or send me an email:

AcademicAdvisor.MEE@tue.nl
Questions?
StudentBody

Master council:
• Group of 10-15 people
• Evaluating quality of courses
• Direct contact with teacher, study advisor and program director
• Providing feedback to the Educational Committee

More side activities:
• Dinner with dean (Bart Smolders)
• Education awards

Interested? Mail to studentbody@tue.nl!
Master associations

Goal

• Help (master) students to explore educational and job opportunities in a specific area

• Organizing activities
  - Excursions
  - Lunch lectures
  - Study trips
Master Associations

IEEE Student Branch Eindhoven
Master study association Waldur

- Electricity Network / Smart Grids
- Sustainability
- Power Conversion / Power electronics
- Electromechanics
- Automotive

Groups: EPE/EES

- Board -> Looking for successors!

Communication

- Magazine Gjallar
- Website: www.Waldur.nl
- Facebook: https://fb.com/dsdwaldur/
- LinkedIn group
How do we connect?

• Company visits
• Lunch lectures
• Study tours
• Network events
• Vacancies
• Symposium
• Informal Drink
Master Association ODIN

• Founded: 10 March 1980
• Members: +/- 60
• Own alumni society: IORD

• Purpose: Introduce pre-master and master students into the field of telecommunications and information technology. Promote research in these fields.

• Excursions, lectures, trips, symposia, workshops, etc.
What is Eir?

• Care & Cure
• Started in 2016
• +- 50 members

Expertise

• Electromagnetics
• Image Processing
• Bio-Electronics
• Control Systems
• Signal Processing
Excursions or lunch lectures

PHILIPS Healthcare

DEMCON | medical robotics

Erasmus MC

Universitair Medisch Centrum Rotterdam

JÜLICH FORSCHUNGSZENTRUM

TU/e
IEEE Student Branch Eindhoven

• In short
  – General Master association situated at Electrical Engineering
  – We arrange IEEE Memberships
  – Study related activities like workshops and lectures

  – However also a lot of fun stuff like:
    • Our annual sailing weekend together with IEEE Belgium
    • 24 hours programming competition
    • Drinks and BBQ’s
Master of Electrical Engineering

Master Kick-off 2019 27 August 2019

Harald van den Meerendonk, Academic Advisor master students Electrical Engineering
Program

• Master’s program of Electrical Engineering
• Special Master’s tracks of Electrical Engineering
• Questions
Master’s program of Electrical Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Core course</th>
<th># credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1: 60 EC</td>
<td>Diagnostic Tests of Professional Skills</td>
<td>0</td>
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<tr>
<td></td>
<td>Core courses</td>
<td>15</td>
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<td>Specialization path</td>
<td>10</td>
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<td></td>
<td>Professional Development</td>
<td>5</td>
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<td></td>
<td>Electives</td>
<td>30</td>
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<td>Year 2: 60 EC</td>
<td>Internship</td>
<td>15</td>
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<td></td>
<td>Graduation project</td>
<td>45</td>
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Core courses

- Select three core courses from set of eight in Q1

<table>
<thead>
<tr>
<th>Code</th>
<th>Core course</th>
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<tbody>
<tr>
<td>2DME10</td>
<td>Discrete Mathematics</td>
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<tr>
<td>2DME20</td>
<td>Non-linear Optimization</td>
</tr>
<tr>
<td>2DME30</td>
<td>Complex Analysis</td>
</tr>
<tr>
<td>5CCA0</td>
<td>Semiconductor Physics and Materials</td>
</tr>
<tr>
<td>5CHA0</td>
<td>Classical and Modern Physics</td>
</tr>
<tr>
<td>5CPA0</td>
<td>Numerical Methods in Electrical Engineering</td>
</tr>
<tr>
<td>5CSA0</td>
<td>Modeling Dynamics</td>
</tr>
<tr>
<td>5CTA0</td>
<td>Statistical Signal Processing</td>
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</tbody>
</table>
Core courses

- Research groups require specific core courses for their specialization

<table>
<thead>
<tr>
<th>Core course preferences versus research groups 2019 - 2020</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>CS</td>
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<tr>
<td>IC</td>
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<td>SPS</td>
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</table>

◆ = Important
✓ = Preferred
# Research groups

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Research group</th>
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</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>
Specialization courses

- Two specialization courses from your preferred research group in Q2 and Q3

<table>
<thead>
<tr>
<th>Path</th>
<th>Code</th>
<th>Course</th>
<th>Quarter</th>
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<tbody>
<tr>
<td>CS</td>
<td>5SMA0</td>
<td>Model-based Control</td>
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<tr>
<td></td>
<td>5SMB0</td>
<td>System Identification</td>
<td>3</td>
</tr>
<tr>
<td>ECO</td>
<td>5SHA0</td>
<td>Photonic Integrated Devices</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5STA0</td>
<td>Optical Fibre Communications Technology</td>
<td>3</td>
</tr>
<tr>
<td>EES-1</td>
<td>5SEB0</td>
<td>Decentral Power Generation and Active Networks</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5SEC0</td>
<td>Planning and Operation of Power Systems</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Course spread over two quarters</strong></td>
<td></td>
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<tr>
<td>EES-2</td>
<td>5SVA0</td>
<td>High Voltage Technology</td>
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<tr>
<td></td>
<td>5SVB0</td>
<td>Electromagnetic Compatibility</td>
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</table>
Some research groups have two specialization paths

<table>
<thead>
<tr>
<th>Path</th>
<th>Code</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>EM</td>
<td>5SPB0</td>
<td>Microwave Engineering and Antennas</td>
<td>2</td>
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<tr>
<td></td>
<td>5SPD0</td>
<td>Electromagnetic Modeling Techniques</td>
<td>3</td>
</tr>
<tr>
<td>EPE-1</td>
<td>5SWA0</td>
<td>Rotary Permanent Magnet Machines</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5SWB0</td>
<td>Advanced Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>EPE-2</td>
<td>5SWC0</td>
<td>Linear and Planar Motors for High-Precision Systems</td>
<td>2</td>
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<tr>
<td></td>
<td>5SWB0</td>
<td>Advanced Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ES</td>
<td>5SIA0</td>
<td>Embedded Computer Architecture</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5SIB0</td>
<td>Electronic Design Automation</td>
<td>3</td>
</tr>
</tbody>
</table>
Specialization courses

- Not all specialization courses start in Q2

<table>
<thead>
<tr>
<th>Path</th>
<th>Code</th>
<th>Course</th>
<th>Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-1</td>
<td>5SFA0</td>
<td>Data Converters 1: Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5SFD0</td>
<td>Data Converters 2: Design</td>
<td>3</td>
</tr>
<tr>
<td>IC-2</td>
<td>5SFB0</td>
<td>RF Transceivers 1: Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5SFE0</td>
<td>RF Transceivers 2: Design</td>
<td>3</td>
</tr>
<tr>
<td>Phi</td>
<td>5SHA0</td>
<td>Photonic Integrated Devices</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>5SHB0</td>
<td>Photonic Integration: Technology and Characterization</td>
<td>3</td>
</tr>
<tr>
<td>SPS</td>
<td>5SSC0</td>
<td>Adaptive Array Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5SSD0</td>
<td>Bayesian Machine Learning and Information Processing</td>
<td>3</td>
</tr>
</tbody>
</table>
Elective courses

• Choose a total of at least 6 courses (30 EC or more)

• Choose from about 70 EE master courses, other TU/e master courses, or master courses from other universities (always to be approved by Examination Committee). 3rd level (Advanced) bachelor courses from EE are allowed for homologation purposes

• Electives can be found through the Master Market Place (https://master.ele.tue.nl)

• Need partial advice of mentor for 15 EC of specialized electives, other 15 EC are free of choice (free electives)

• Examination Committee approves your electives (and the rest of your study program)
Professional Development

Main targets

• Tutoring and coaching an DBL group of Bachelor students:
  • coaching and motivating students, contact with technical experts, give and receive feedback to/from students and peers
• Formulating a research question and conducting literature review
• Improving skills of academic writing and presenting scientific information:
  • using feedback moments at the end of the internship and half way through the graduation project

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>5CKB0</td>
<td>Tutoring and Coaching</td>
<td>2,4</td>
</tr>
<tr>
<td>5CKF0</td>
<td>Research set-up</td>
<td>1,3</td>
</tr>
</tbody>
</table>
Internship

- Research project of 15 EC
- Possibility to extend with 5 EC (instead of an elective course)
- Choose internship abroad to obtain international experience
- Always under the responsibility of an EE staff member
- Fill in the internship contract (see Digital Education Guide) before starting
- Assessment is done by internship assessment form
- Based on results of Reporting and Presenting, extra training via SkillsLab or courses
Graduation

• Graduation project of 45 EC (32 weeks)

• Project contributes to the research of the supervising research group

• Can be done inside and outside the department of EE

• Always under the responsibility of an EE staff member

• Allowed to start when your study program is complete except for at most two electives
Graduation

• Fill in the graduation contract before you start the graduation

• Half way through graduation: composition of the graduation committee halfway presentation and report -> evaluation/feedback

• Based on feedback of Reporting and Presenting, extra training via SkillsLab or courses

• At the end of the graduation: final presentation (defense) and graduation paper

• Assessment is done by graduation committee
Special Master’s tracks

Two tracks

- Connected World Technologies (CWT)
- Care & Cure (C&C) with subtracks:
  - Neurology
  - Oncology
  - Cardiology
  - Perinatology

Obtain certificate as proof of further specialization
Special Master’s tracks

Requirements for certificate

- Specialization courses from specific group (main specialization)
- Two extra specialization courses from other related groups (not main specialization)
- Graduation work in area, with supervisor from group
- Note: time table can give conflicts between specialization courses

<table>
<thead>
<tr>
<th>Special Master’s tracks</th>
<th>Research groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connected World Technologies</td>
<td>ECO, Phi, EM, IC, SPS</td>
</tr>
<tr>
<td>Care &amp; Cure</td>
<td>EM, IC, SPS</td>
</tr>
</tbody>
</table>

Master Kick-off 2019
Special Master’s tracks

Requirements for subcertificate C&C

• Meet the criteria for the C&C certificate
• Choose three master electives from a specific C&C subtrack (see the Digital Education Guide)
• Courses from the C&C subtrack done in the Bachelor also count for the requirement

What to do?

• Denote on the study program form your choice (after download (via MMP) your preferred special Master’s track
• Register for all specialization courses in Q2 and Q3
Questions?
# Program Master Kick-off ‘19

<table>
<thead>
<tr>
<th>DAY 1: DEPARTMENT DAY</th>
<th>DAY 2: COMPANY DAY</th>
<th>DAY 3: CHALLENGE DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday 27 Aug</strong></td>
<td><strong>Wednesday 28 Aug</strong></td>
<td><strong>Thursday 29 Aug</strong></td>
</tr>
<tr>
<td>08.30 Auditorium Check-in</td>
<td>09.00 Company Tour at High Tech Campus and Brainport Industries</td>
<td>09.00 Tackle the Challenge</td>
</tr>
<tr>
<td>09.30 Opening Ceremony</td>
<td>13.00 Lunch</td>
<td>12.00 Lunch at Forum</td>
</tr>
<tr>
<td>10.30 Department Information or Professional event</td>
<td>14.00 Company Tour at High Tech Campus and Brainport Industries</td>
<td>13.00 Finish the Challenge</td>
</tr>
<tr>
<td>12.00 Lunch at Forum</td>
<td>18.00 Diner at Forum</td>
<td>15.00 Activity at Student Sports Center</td>
</tr>
<tr>
<td>13.00 Department Activity</td>
<td>20.00 Activity and party at Luna</td>
<td>17.30 Dinner at Atlas</td>
</tr>
<tr>
<td>15.00 Workshops</td>
<td></td>
<td>19.30 Award / Closing Ceremony</td>
</tr>
<tr>
<td>18.00 Dinner at Study Association</td>
<td></td>
<td>20.00 Eindhoven by Night</td>
</tr>
<tr>
<td>19.30 Activity at Study Association</td>
<td></td>
<td>22.30 Closing Party at Effenaar</td>
</tr>
</tbody>
</table>

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**The Best Way to Start Your Master**

The programs end daily around 23.00-24.00, but you're always welcome to stay longer and have fun!

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[Image of TU/e logo]