Pre-Master Kick-off 2020

Hbo Bachelors, university Bachelors and HBO-TOP students 31 August 2020

Harald van den Meerendonk, Academic advisor pre-Master’s and Master’s students Electrical Engineering
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Welcome

Marion Matters

• Graduate Program Director Electrical Engineering
  Vice-dean of the department of Electrical Engineering

Harald van den Meerendonk

• Academic advisor master, pre-master
  and HBO-TOP students Electrical Engineering
TU/e Electrical Engineering

Department EE since 1957
Education and Research
1200 BSc and MSc students
380 employees
280 PhD students

Intense cooperation with high-tech industry and research institutes
e.g. Philips, NXP, ASML, OCE, TNO, Thales, ...

Three main research themes (Societal embedding Electrical Engineering)

Connected World
Smart and Sustainable Society
Care and Cure
The Connected World
Smart and Sustainable Society
Care and Cure
And many more applications
## Research groups

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Research 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>
Bachelor’s and Master’s programs

- Bachelor Electrical Engineering (EE): 127 new/541 total students
- Bachelor Automotive Technology (AT): 101 new/266 total students

- Premaster Electrical Engineering (EE): 17 new/19 total students
- HBO-TOP students Electrical Engineering (EE): 9 new/16 total students

- Master Electrical Engineering (EE): 140 new/370 total students
  - Master’s track Artificial Intelligence Engineering Systems (AIES)
  - Master’s track Connected World Technologies (CWT)
  - Master’s track Care and Cure (C&C)
Pre-Master’s programs

• Hbo graduates follow the pre-Master’s program for hbo Bachelors.

• HBO-TOP students follow the pre-Master’s program for hbo Bachelors.

• University graduates (TU/e and other) follow an individual pre-Master’s program

• All pre-Master’s programs max. 30 EC
Program for HBO Bachelors

- Pre-Master’s program for HBO Bachelors: 30 EC
  (8 of 11 deficiency courses)

- Master’s program for HBO Bachelors: 120 EC
  (including remaining 3 of 11 deficiency courses)
# Program for HBO Bachelors

<table>
<thead>
<tr>
<th></th>
<th>Pre-Master’s program</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First year</strong></td>
<td><strong>Pre-Master’s program</strong></td>
<td>30</td>
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<tr>
<td><strong>Second year</strong></td>
<td><strong>Homologation courses</strong></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Core courses</strong></td>
<td>15</td>
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<tr>
<td></td>
<td><strong>Specialization courses</strong></td>
<td>10</td>
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<tr>
<td></td>
<td><strong>Professional Development</strong></td>
<td>5</td>
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<tr>
<td></td>
<td><strong>Elective courses</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>Third year</strong></td>
<td><strong>Internship</strong></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Graduation project</strong></td>
<td>45</td>
</tr>
</tbody>
</table>

Pre-Master Kick-off 2020
### Pre-Master’s program for hbo Bachelors

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>EC</th>
<th>Quarter</th>
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</thead>
<tbody>
<tr>
<td>5PRE01</td>
<td>Refresher’s English for pre-Master’s students</td>
<td>0</td>
<td>1</td>
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<tr>
<td>2WBB0</td>
<td>Calculus variant 2</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>2DL60</td>
<td>Linear Algebra</td>
<td>2,5</td>
<td>1</td>
</tr>
<tr>
<td>5ESD0</td>
<td>Control Systems</td>
<td>5</td>
<td>1</td>
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<tr>
<td>2DL40</td>
<td>Advanced Calculus I</td>
<td>2,5</td>
<td>2</td>
</tr>
<tr>
<td>2DL70</td>
<td>Probability and Statistics</td>
<td>2,5</td>
<td>2</td>
</tr>
<tr>
<td>5EWB0</td>
<td>Electrical Power Engineering</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>2DL50</td>
<td>Advanced Calculus II</td>
<td>2,5</td>
<td>3</td>
</tr>
<tr>
<td>5ETA0</td>
<td>Introduction Telecommunication</td>
<td>5</td>
<td>3</td>
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</tbody>
</table>
Pre-Master’s program for HBO Bachelors
• Still remaining 3 of 11 deficiency courses (EE) for 15 EC
• To be resolved in the Master’s program for HBO Bachelors, Homologation part

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>EC</th>
<th>Quarter</th>
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<td>5EPA0</td>
<td>Electromagnetics I</td>
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<tr>
<td>5ESC0</td>
<td>Signals II</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>5ECC0</td>
<td>Electronic Circuits II</td>
<td>5</td>
<td>2</td>
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</tbody>
</table>

• Note: 5EPA0 and 5ESC0 are not in the same timeslot anymore!!!
Pre-Master’s program for hbo Bachelors

After the pre-Master (as master student)

• Finish the deficiency/homologation courses 5EPA0 Electromagnetics, 5ESC0 Signals II and 5ECC0 Electronic Circuits II in Y1Q1 and Y1Q2 of the master (next year).

• Do not register for 3 core courses and 2 homologation courses in Y1Q1

• Divide core courses over two master years: 1 core course in Y1Q1, 2 core courses in Y2Q1
Program for university Bachelors

- Pre-Master’s program individual: 30 EC

- Master’s program for EE Bachelors: 120 EC
### Program for university Bachelors

<table>
<thead>
<tr>
<th>Year</th>
<th>Pre-Master’s program</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First year</strong></td>
<td>Pre-Master’s program individual</td>
<td>30</td>
</tr>
<tr>
<td><strong>Second year</strong></td>
<td>Core courses</td>
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<td></td>
<td>Specialization courses</td>
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<td>Graduation project</td>
<td>45</td>
</tr>
</tbody>
</table>

Pre-Master Kick-off 2020
Study Progress Requirement

The pre-Master’s program has to be completed within the first year (max. 2 semesters)
Study Progress Requirement

• If completed within one year, continue as a Master’s student

• If not completed within one year, then not allowed to continue as a Master’s student, and not as a pre-Master’s student for a period of three years

• If withdrawn from the pre-Master’s program before 1 March and not re-enrolled for another pre-Master’s program at TU/e, no binding study progress requirement is given

• If withdrawn or de-enrolled, no credits are lost
Study Progress Requirement

• After 1 March, a preliminary study progress recommendation is given based on the results of Q1, either the first exam or the second exam (re-sits from Q2)

• After Q4, a binding study progress decision is given: positive or negative
  • Positive: program completed, continue as a Master’s student the next month or 1 September
  • Negative: program not completed, not allowed to continue

• After Q1, the academic advisor will check your study progress

• Contact me if you do not have sufficient study progress or face study difficulties

• However: withdrawal/de-enrollment is not always the solution
Study Progress Requirement

• OER/PER 2020-2021 Master’s program EE, Article 4, paragraph 6

“Students who still have to successfully complete one study component can make a single request for one additional opportunity to complete the study component from the Examination Committee during enrolment as pre-Master’s students, preferably directly after not receiving a pass during the re-sit.”

• Send a request to the Examination Committee
Study Progress Requirement

- OER/PER 2020-2021 Master’s program EE, Article 2, paragraph 6
  “If students cannot complete the pre-Master’s program within six months of the start of the program and therefore are placed at a demonstrable disadvantage, and have obtained a minimum of 15 credits at that time, the students may submit a request to expand the program with a maximum of 15 credits worth of Master’s study components. The credits obtained for Master’s study components during the pre-Master’s program may, at the request of the students, be recorded, retaining the grade and date of examination, on the students’ Master’s transcript.”

- If you have obtained ≥ 15 EC after Q2, you can follow master courses/exams (max. 15 EC)
Study Progress Requirement

• If you think you will obtain $\geq 15$ EC after Q2, register for master courses in Q3 before deadline. If you think you will obtain $\geq 15$ EC after Q3 (re-sits Q2), register in time for master courses in Q4.

• If officially $\geq 15$ EC after Q2 or Q3 (re-sits), send a request to the Examination Committee.

• If allowed, take master exams for Q3 or Q4, but: pre-Master’s program still needs to be finished -> **focus on pre-Master’s program**
  • You will be registered for the master exams by CSA EE

• You have to pay for extra master courses. Contact ESA ([ESA@tue.nl](mailto:ESA@tue.nl))
Refresher’s course English for pre-Master’s students

- Pre-Master’s students and HBO-TOP students follow Refresher’s English for pre-Master’s students (5PRE01)

- Check Canvas for more information on the date, time and location

- Mandatory intake assessment on Wednesday 2 September 2020 from 13:30h till 15:00h
Refresher’s course English for pre-Master’s students

- If **complete**, you do not need to follow the course and do the exam. You will receive a PASS in Osiris at the end of the exam period of Q1.

- If **incomplete**, follow the course and do the exam. Check course registration in Osiris and MyTimeTable/Canvas for details.

- The lecturer decides on complete/incomplete.

- Results will be posted by 12:00h noon the Monday after. Students will be notified directly.

- Pre-Master’s students do not get credits, HBO-TOP students do get credits (3 EC) for their minor.
HBO-TOP/minor

• HBO-TOP students and students doing a minor at TU/e follow the pre-Master’s program for HBO Bachelors

• General idea: finish the pre-Master’s program (30 EC) as an HBO Bachelor student, start the master directly after graduation from HBO.

• Duration minor (Q1 and Q2) < duration pre-Master’s program (Q1, Q2 and Q3).

HBO-TOP/minor students who complete parts of the pre-Master’s program, become pre-Master’s students after graduation from HBO. They continue with the open courses from the pre-Master’s program or the three EE deficiency courses until 30 EC is obtained.
HBO-TOP/minor

- As pre-Master’s student: only pay for the remaining courses as well as other courses

- HBO-TOP/minor students who passed the course 2DL00 as part of their entrance requirements, do not need to do the entrance test of 2WBB0 Calculus variant 2. Check with the lecturer!

- HBO-TOP students are only allowed to register for the courses from the pre-Master’s program or the three remaining deficiency courses 5EPA0, 5ESC0 and 5ECC0
Transitional arrangements

• Changes in the Mathematics courses (HBO-TOP students from 2018 or earlier)

• All 3 EC Mathematics courses have changed to 2.5 EC

• 2DL03 Basiswiskunde  ->  2WBB0 Calculus variant 2
  2DL04 Calculus A    ->  2DL40 Advanced Calculus I
  2DL05 Calculus B    ->  2DL50 Advanced Calculus II
  2DL06 Lineaire Algebra ->  2DL60 Linear Algebra
  2DL07 Statistiek    ->  2DL70 Probability and Statistics

• Courses are offered in English
Transitional arrangements

• Courses are offered once per academic year from September

• No entrance moment in February

• Students who need to do one or more 3 EC Mathematics courses from their original pre-Master’s program, can do the equivalent 2.5 EC courses

• The pre-Master’s program is finished when all courses (3 EC or 2.5 EC) are completed, regardless of the number of obtained credits (range: 28-30 EC)
Students from SMU via Hogeschool Zeeland

• Students from SMU may get exemptions for 4 Mathematics courses (2WBB0, 2DL40, 2DL50 and 2DL60) based on results of Linear Algebra and Advanced Mathematics I & II obtained at SMU

• Examination Committee decides on exemptions based on transcripts from SMU.

• Send a request to the Examination Committee with a copy of the Transcript of Records from Shanghai Maritime University (in English)

Examination.Committee.EE@tue.nl
## SHANGHAI MARITIME UNIVERSITY STUDENT ACADEMIC RECORD

<table>
<thead>
<tr>
<th>Name</th>
<th>Student No</th>
<th>sex</th>
<th>Date of Admission</th>
<th>Date of Graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty</td>
<td>Date</td>
<td>Term</td>
<td></td>
<td></td>
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<tr>
<td>Engineering and Intelligent Control</td>
<td>14-15-1</td>
<td></td>
<td>Choice of Western philosophy</td>
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<tr>
<td>Engineering and Intelligent Control</td>
<td>14-15-1</td>
<td></td>
<td>Military Course</td>
<td>1</td>
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<tr>
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<td>14-15-1</td>
<td></td>
<td>Personal and Enabling Skills</td>
<td>5</td>
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<tr>
<td>Engineering and Intelligent Control</td>
<td>14-15-1</td>
<td></td>
<td>Computer Application Skills</td>
<td>0</td>
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<tr>
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<td>14-15-1</td>
<td></td>
<td>Concept and Operation of Port</td>
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<td>14-15-1</td>
<td></td>
<td>The Philosophical Theory of Marxism</td>
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<tr>
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<td>Physical Education (I)</td>
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<td>Introduction to Management</td>
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<td>University Physics (I)</td>
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<tr>
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<td>14-15-2</td>
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<td>Advanced Mathematics (I)</td>
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<td>Physical Education (III)</td>
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<td>KAB Entrepreneurial Basic of College Students</td>
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</table>

Pre-Master Kick-off 2020
Students from SMU via Hogeschool Zeeland

- Students from HZ/SMU may follow remaining EE deficiency courses (5EPA0, 5ESC0 and 5ECC0) instead

- New this year: 5EPA0 Electromagnetics I and 5ESC0 Signals II are **not** in the same time slot anymore. You can follow them both at the same time!!!

- You do not have to pay for exemptions. You have to pay for following extra courses
Registration for courses

• All courses from the pre-Master’s program are Bachelor courses

• Rules of the Bachelor College apply according to the OER/PER Bachelor

• Register for courses via OSIRIS in time. Check the deadlines (online education guide and ESA emails)!

• After registration, check confirmation emails. Contact ESA (ESA@tue.nl) if no confirmation emails received.
Registration for courses

• Course registration also includes exam registration

• Register for maximum 20 EC per quarter

• Automatically registered for 2WBB0 and timeslot (B) due to the huge number of students

• After the deadline, Administrative Costs Regulation (ACR) holds: pay € 20 per course to be registered to the course under conditions
Registration for courses

- Final exams are always in the same quarter as the courses; re-sits are always in the next quarter

- You must attend the first exam in order to be allowed to do the re-sit in the next quarter
Registration for courses and exams

Deadlines

- Registration deadline: register in time for courses for the next quarter
  - Register for courses before 11 October 2020 for courses in the second quarter
- Missed the registration deadline? Register by paying €20 (ACR) with ACR deadline
- Missed the ACR deadline as well? Registration not possible
- Possible changes due to Corona situation. Check the emails
- See the online education guide for more information: https://educationguide.tue.nl/studying/planning/enrolling-courses-and-examinations/enrolling-courses-and-examinations-bachelor-college/
Health and Safety Risk Management Training

For all new students

• Practical information about the buildings and learn how to avoid hazards and risks
• How to act in case of an emergency
• How to prevent physical complaints caused by computer work
• Online training; you will receive an invitation with timeslot
• Presence is mandatory for all new students
• Training counts as a practical exercise within the pre-Master’s program
• Presence will be registered
• If you do not attend, you will not be able to complete your program
Online education guide Electrical Engineering

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

• Curriculum: pre-Master’s program, Master’s program for hbo graduates
• Regulations: Program and Examination Regulations (PER/OER) from both Bachelor and Master
• Examination Committee and Program Committee
• Forms
• Quality Assurance
• A to Z
• https://educationguide.tue.nl/programs/pre-masters-programs/electrical-engineering/
Online education guide: [https://educationguide.tue.nl](https://educationguide.tue.nl)
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Academic advisor

Academic advisor advises and helps you

• To improve your study progress
• With practical questions about the pre-Master’s program
• With study-related questions and problems
• With study skills
• With your planning,
• In case of personal circumstances
Academic advisor

Academic advisor refers to

- Study choice advisor: problems related to doubts about study choice
- Student counsellor: study grants, financial support, functional impairment or chronic illness, top-level sports
- Study management advisor: improve study progress and study output
- Student psychologist: depression, anxiety, autism, ADHD, stress, assertiveness, personal circumstances
- Confidential counsellor: conflicts between student(s), teacher(s), staff, supervisors, or in case of undesirable or unwelcome behaviour
- [https://educationguide.tue.nl/organization/advisors-and-tutors/](https://educationguide.tue.nl/organization/advisors-and-tutors/)
Academic advisor works according to AVG/GDPR regulations

• Meetings and correspondence are always STRICTLY CONFIDENTIAL. Notes are being made and stored in your digital file to keep track of your situation. Personal information will not be shared with lecturers and other staff unless there is an acute danger for you and/or others.

https://educationguide.tue.nl/organization/advisors-and-tutors/

• Study progress check after Q1, just to check how you are doing after the first quarter
• Follow-up meeting in Q3W1D1
• Communities at TU/e: see

https://www.tue.nl/en/our-university/community/overview/
Academic advisor

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

Academic.Advisor.MEE@tue.nl
A diverse community requires inclusiveness

• The TU/e is built on inclusiveness

• Diversity is key in gender, origin, religion, sexual orientation

• If you see something, say something. Doing nothing is a signal of silent condonement

• Do not be the one who gives a silent okay

• Or else contact your academic advisor
TU/e in Corona times

• Most of the courses are offered online

• Some courses can be followed partially on-campus.

• Check MyTimeTable for the location and other relevant information.

• Updates about the Covid-19 measures:
  - online education guide
  - TU/e Corona page
THE STUDENTBODY

• The educational feedback body of the Department of Electrical Engineering

• By students, for students
THE STUDENTBODY TEAM

Daan   Bram   Thijs   Mandy
THE STUDENTBODY TEAM (FROM SEPTEMBER)

Bram

Thijs

Mandy

Jos
WHAT DO WE DO?

• Year Councils
• Panel of Education
• BBQ
• Dinner with the Dean
• Best Teacher Awards
• Xplore Your Master
• Contact us with educational problems
YEAR COUNCILS AND PANEL OF EDUCATION

- Year Councils with Commissioner of Education
- Panel of Education with Commissioner of Education, Program Directors and student-member of Department Council
- Setup unique within TU/e
- Short feedback loop
- Problems can be fixed a.s.a.p.
QUESTIONS?
Questions