

Master Kick Off – Get to know your program

Master Sustainable Energy Technology

Ann De Veirman – academic advisor AT/S&C

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August 2024

WHO ARE WE?

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WELCOME!



INTRODUCTION MASTER PROGRAM SET

- **Program Committee SET**
- Academic year agenda: how to prepare yourself!
- Study management
- Student guidance

INTRODUCTION MASTER PROGRAM SET

- Program Committee SET
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Academic year agenda: Q1

Date	Activity
Registration: 15 Jun to 25 Aug AKR: 26 Aug to 30 Aug New TU/e students: 6 Sep	Courses: <ul style="list-style-type: none">• Closing date registration for courses quarter 1• Register yourself for two core courses and for one elective or specialization course in Osiris
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9 th September	Specialization meeting (invitation via CANVAS 4INFOSET)
September/October	CANS/RSI and Work safety (invitation will follow)
September/October	Student mentor meetings (invitation will follow)

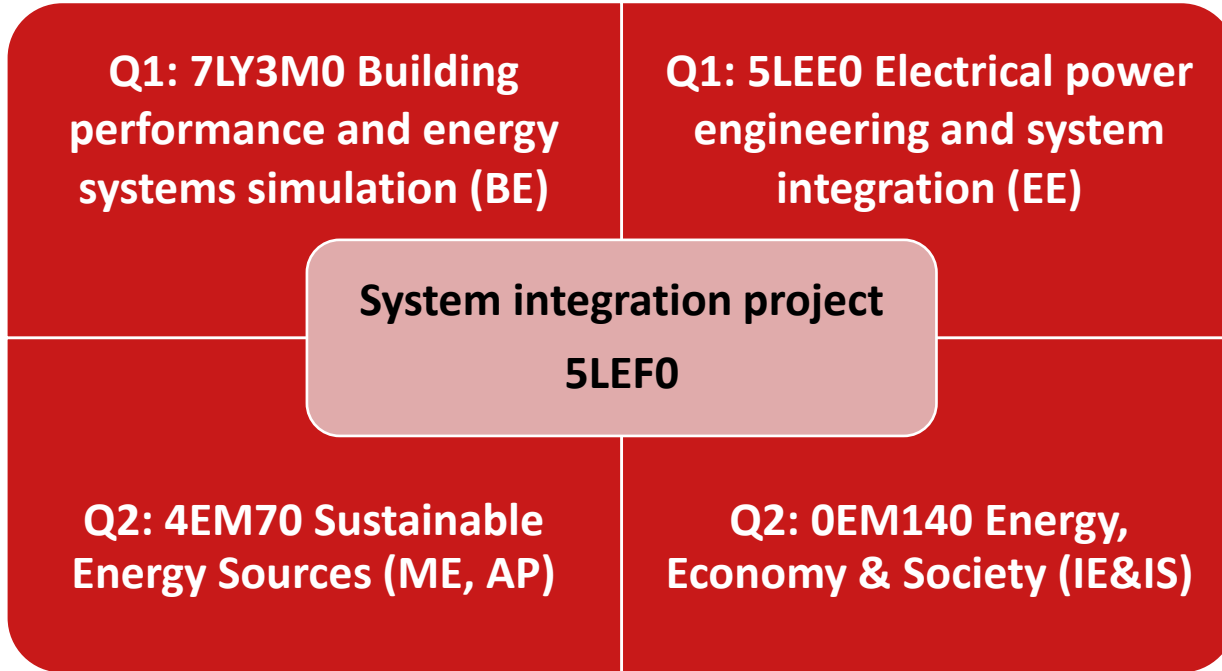
Your first priority NOW: Registration of Q1 courses

- ▶ The deadlines for Q1:
 - ▶ deadline for course registration was Aug 25, AKR (administrative cost regulation; 20€) deadline is Aug 30 5 PM.
 - ▶ Deadline for exam registration is Oct 15.
 - ▶ After the deadline registration is no longer possible!
 - ▶ For new TU/e students (only!) the Q1 deadline is extended to Sept 6! **Send an e-mail to: esahelpdesk@tue.nl; Subject: 'Q1 course registration (1st enrollment TU/e)' followed by 'course code'.**
- ▶ You have to register for your **courses and exams** in Osiris!
- ▶ Attention: make sure to use the check mark 'exams' in Osiris.
- ▶ You are only allowed to take the exam with an exam registration (Osiris).
- ▶ You have to register for resits. This is not done automatically.

QUESTIONS? Contact esahelpdesk@tue.nl

Program overview & core program

Not for students who did 5EWB0 in their BSc program. These students take an additional specialization course, recommended are 5SEDO (2.5EC) and 5SEE0 (2.5EC)



1 st year	<ul style="list-style-type: none"> • Core program (30 EC) • Specialization courses (15 EC) • Free electives (incl. homologation, 15 EC) 		
2 nd year	<table border="0"> <tr> <td>Internship 15 EC</td> <td>Graduation project 45 EC</td> </tr> </table>	Internship 15 EC	Graduation project 45 EC
Internship 15 EC	Graduation project 45 EC		


COURSES: FOR SPECIALIZATION

- 15 EC for specialization courses
- Choose from the list 'Core and specialization courses SET 2024/25'
- Courses are linked to profiles (this are **suggestions!**)
- You can choose **every** specialization course from the list!
- Most courses are 5 EC, some are 2.5 EC

Discuss with your mentor which courses suit your specialization and personal profile

Courses MSc Sustainable Energy Technology 2024/25

SE1 themes and profiles for specialisation:



SE1 theme	SE1 profile	SE1 course	SE1 EC
SE1.1	SE1.1.1	SE1.1.1	5
SE1.2	SE1.2.1	SE1.2.1	5
SE1.3	SE1.3.1	SE1.3.1	5
SE1.4	SE1.4.1	SE1.4.1	5
SE1.5	SE1.5.1	SE1.5.1	5
SE1.6	SE1.6.1	SE1.6.1	5
SE1.7	SE1.7.1	SE1.7.1	5
SE1.8	SE1.8.1	SE1.8.1	5
SE1.9	SE1.9.1	SE1.9.1	5
SE1.10	SE1.10.1	SE1.10.1	5
SE1.11	SE1.11.1	SE1.11.1	5
SE1.12	SE1.12.1	SE1.12.1	5
SE1.13	SE1.13.1	SE1.13.1	5
SE1.14	SE1.14.1	SE1.14.1	5
SE1.15	SE1.15.1	SE1.15.1	5
SE1.16	SE1.16.1	SE1.16.1	5
SE1.17	SE1.17.1	SE1.17.1	5
SE1.18	SE1.18.1	SE1.18.1	5
SE1.19	SE1.19.1	SE1.19.1	5
SE1.20	SE1.20.1	SE1.20.1	5
SE1.21	SE1.21.1	SE1.21.1	5
SE1.22	SE1.22.1	SE1.22.1	5
SE1.23	SE1.23.1	SE1.23.1	5
SE1.24	SE1.24.1	SE1.24.1	5
SE1.25	SE1.25.1	SE1.25.1	5
SE1.26	SE1.26.1	SE1.26.1	5
SE1.27	SE1.27.1	SE1.27.1	5
SE1.28	SE1.28.1	SE1.28.1	5
SE1.29	SE1.29.1	SE1.29.1	5
SE1.30	SE1.30.1	SE1.30.1	5
SE1.31	SE1.31.1	SE1.31.1	5
SE1.32	SE1.32.1	SE1.32.1	5
SE1.33	SE1.33.1	SE1.33.1	5
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SE1.37	SE1.37.1	SE1.37.1	5
SE1.38	SE1.38.1	SE1.38.1	5
SE1.39	SE1.39.1	SE1.39.1	5
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SE1.42	SE1.42.1	SE1.42.1	5
SE1.43	SE1.43.1	SE1.43.1	5
SE1.44	SE1.44.1	SE1.44.1	5
SE1.45	SE1.45.1	SE1.45.1	5
SE1.46	SE1.46.1	SE1.46.1	5
SE1.47	SE1.47.1	SE1.47.1	5
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SE1.73	SE1.73.1	SE1.73.1	5
SE1.74	SE1.74.1	SE1.74.1	5
SE1.75	SE1.75.1	SE1.75.1	5
SE1.76	SE1.76.1	SE1.76.1	5
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SE1.87	SE1.87.1	SE1.87.1	5
SE1.88	SE1.88.1	SE1.88.1	5
SE1.89	SE1.89.1	SE1.89.1	5
SE1.90	SE1.90.1	SE1.90.1	5
SE1.91	SE1.91.1	SE1.91.1	5
SE1.92	SE1.92.1	SE1.92.1	5
SE1.93	SE1.93.1	SE1.93.1	5
SE1.94	SE1.94.1	SE1.94.1	5
SE1.95	SE1.95.1	SE1.95.1	5
SE1.96	SE1.96.1	SE1.96.1	5
SE1.97	SE1.97.1	SE1.97.1	5
SE1.98	SE1.98.1	SE1.98.1	5
SE1.99	SE1.99.1	SE1.99.1	5
SE1.100	SE1.100.1	SE1.100.1	5

Check actual information about quarter and timetable in OSSE linkages

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SET profiles

Courses MSc Sustainable Energy Technology 2024/25

Core course
Homologation course
Specialization course

30 EC

Homologation modules are part of free electives. The total amount of bachelor and homologation courses may not exceed 15 EC. Homologation is strongly advised, depending on student's background. See information at the online education guide for target groups. Students need to choose at least 15 EC of specialization courses from this list. Suggestions for specialization courses are indicated for each profile.

SET themes and profiles for specialization:

1	Theme: Sources, fuels and storage	Chemistry for sustainable energy systems (PMP+CEC);
2		Engineering for sustainable energy systems (P&F+ET+CEC)+TPM
3		Systems for sustainable heat (ET+P&F+TPM)
4	Theme: System thinking	Electrical power systems (EPE+EES)
5		Application in the built environment (BPS + ET)
6		Energy & society (TIS)

Quarter 1

			Credits	Timeslot
BE	7LY3M0	Building performance and energy systems simulation	5	C
EE	SLEE0 ^[1]	Electrical power engineering and system integration	5	D
ME	4SE010	Homologation Heat, Flow and Thermodynamics	2.5	E2, E3
AP Plasma and Materials Processing	3MB010	Physics of Plasma and Radiation	5	A
AP Transport in Permeable Media	3MS010	Advanced fluid dynamics	5	E
BE Building Physics and Services	7XC1M0 ^[2]	Circularity in the built environment	5	A
BE Building Physics and Services	7LY5M0	Intelligent Buildings	5	B
BE Building Physics and Services	7LS3M0	Sustainable Buildings/Physical Aspects of Building Materials	5	A
CEC Macromolecular and Organic Chemistry	GEMAS3 ^[3]	Molecular photophysics	5	D
EE Electromechanics and Power Electronics	SLWE0	Control of Rotating Field Machines	5	A
EE Electromechanics and Power Electronics	SLWH0 ^[7]	Modelling & control of power converters	5	C
EE Electrical Energy Systems	SLEL0	Power Quality Phenomena	5	E
IE&IS Innovation, Technology Entrepreneurship & Marketing	1ZM20	Technology entrepreneurship	5	E
IE&IS Technology, Innovation & Society	0EM150	Sustainable transitions and responsible innovation	5	C
ME Power & Flow	4RM00 ^[5]	Introduction to Computational Fluid Dynamics	5	B

	1	2	3	4	5	6

- Specializations are organized in six profiles, which help you in choosing your specialization
- Sections involved in SET are connected to one or more of the [profiles](#)

COURSES: FREE ELECTIVES (15 EC)

Courses on Master level intended to broaden or deepen your knowledge extra specialization courses.

- all TU/e courses on Master level (no overlap between courses allowed)
- an extension of the internship with 5 EC
- deficiency courses (determined by the admission committee or in consultation with mentor)
- **The homologation course** that is offered for SET (4SE010 Homologation Heat, Flow and Thermodynamics), only for the target group (BSc EE, not for BSc ME and AP)

One suggestion for students taking homologation modules (2.5EC): 4WM10 (Career development; 2.5EC)

Academic year agenda: Q1

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September/October	Student mentor meetings (invitation will follow)

MASTER ALLOCATION PROCEDURE (4MAPSET)

Allocation of students to sections.

For more detailed information go to educationguide.tue.nl

Centrally organized specialization information meeting	Possibility for research sections to organize extra information meeting	Upload CV and motivation letter in Canvas (4MAPSET) for preferred section	Allocation of students to research sections
Week 2 of Q1 9 Sept Monday afternoon	Week 3-4 of Q1 16-27 Sept	Open: Tuesday 17 Sept Deadline: Sunday 29 Sept 23:59	End of week 5 of Q1 2-3 Oct

Academic year agenda: Q1

Date	Activity
<ul style="list-style-type: none">• 27 August• 1 September (AKR)• 8 September: New TU/e students only	<p>Courses:</p> <ul style="list-style-type: none">• Closing date registration for courses quarter 1• Register yourself for two core courses and for one elective or specialization course in Osiris
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CANS/RSI and Work safety *For new TU/e students only*

Information meetings will be organized.

You will receive an invitation via 4INFOSET in Q1.

MANDATORY under Dutch law

Your presence will be checked

Academic year agenda: Q1

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Looking ahead!

Student meetings – year 1 & 2

Goals:

- Sharing experiences at the TU/e and in the Master's program
- Sharing information about what you need to arrange for the next stage of your Master's program
- Community feeling



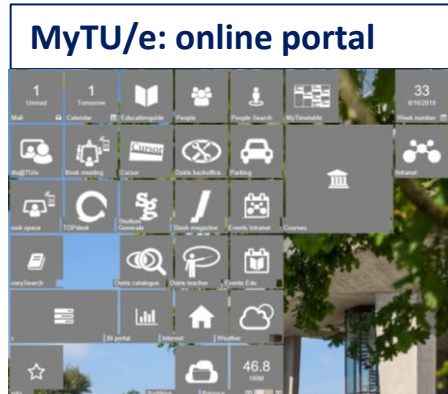
Topics Master Kick-off, Specialization and Q meetings:

Year 1: Master Kick-off (August)	Specialization meeting SET (September 9 th)	Year 1: Q2 meeting (Nov/Dec)	Year 1: Q3 meeting (March)	Year 1: Q4 meeting (May)	Year 2: Q1 meeting (Sept/October)
<ul style="list-style-type: none">• Program Introduction• Study management & coaching• Information & support	<ul style="list-style-type: none">• Specialization choice - MAP• Information session about specialization options	<ul style="list-style-type: none">• Specialization choice• To do list• Registration exams and Q2 courses• Fraud basics• Evaluation	<ul style="list-style-type: none">• Quality assurance: NSE• Practicalities• How to find an internship?• Evaluation	<ul style="list-style-type: none">• How to organise your internship?• How and when to search for a graduation project?	<ul style="list-style-type: none">• How to organize the graduation project (online meeting)

INTRODUCTION MASTER PROGRAM SET

- Program Committee SET
- Academic year agenda: how to prepare yourself!
- **Study management**
- Student guidance

ONLINE EDUCATIONAL SYSTEMS



Education guide: Program overview, elective courses list, homologation courses, procedures, examination committee, teaching and examination rules



Osiris: course and exam registration, progress overview



Canvas: Learning management system, course information, course materials, assignments, 4INFOSET, etc.



TE Timetable: personal time schedule

More information + videos: <https://educationguide.tue.nl/practical-info/it-services/online-systems>

ONLINE EDUCATION GUIDE

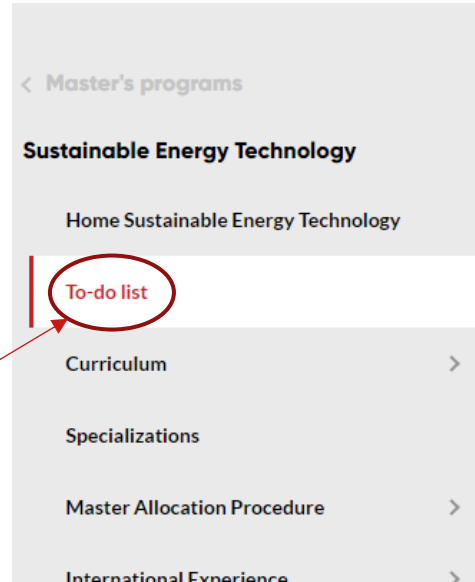
<https://educationguide.tue.nl/>

Go to: Programs > Graduate School > Master's Programs > Sustainable Energy Technology

<https://educationguide.tue.nl/programs/graduate-school/masters-programs/sustainable-energy-technology/>

- Program overview
- Specialization courses list
- Homologation courses
- Procedures
- Examination committee
- Teaching and examination rules

Regularly check the [to-do list](#) !



The to-do list guides you through all administrative phase of your Master: entering the program, you proactively; it's your responsibility to make sure available if you encounter problems or have a qu

Please note that these are only administrative re graduate successfully, are being described in the

DOWNLOADS

[PDF] [TO DO List SET 24-25.pdf](#)

4INFOSET (CANVAS, MANDATORY)

4INFOSET Information of the study: MSc SET

2018 Q3-Q4 (JAAR) year!

Recent announcements

- No title**
Dear master students, With this message we would like to inform you about upcoming changes, new regulations, and other matters in the Master's Program for the academic year 2019-2020: see...
- Summer newsletter SET**
Dear master students, The academic year 2018-2019 is coming to an end. We hope you are able to finish up successfully and use the summer to get lots of positive energy and plans. With this me...
- Information: education office AT, SET and S&C and international office**
Dear SET, AT and S&C students, Please hand in all forms (Internship/ Agreement or forms for grants), for the beginning of next academic year, before Wednesday the 10th of July! Holiday opening...

Recent activity in 4INFOSET Information of the study: Msc SET

- 1 announcement

Course status

Unpublish Publish

Import from Comm

Choose home page

New announcement

Student view

Coming up

hourly: Week 30 (Monday)

You will be added to the course, if not do it yourself!!!!

Student information meetings will be announced here.
Student information will be posted here ('files').

Read your TU/e mail!

Study management: the PSV approach

Prioritize-Specify-Visualize



Prioritize:

- Register for 15EC courses (the academic year = 4Q's)
 - 15EC courses requires 420 study hours (1EC = 28 hours)
 - 20EC is allowed, but not recommended
- Make a priority list: which course is the most important to pass this Q?
 - It is recommended to focus first on the core and homologation courses.

Why such a priority list?

If the workload is too high, you can drop the course that is lowest on your priority list.

There may be foreseeable and unforeseen reasons why the workload in a Q is too high for you (think about illness, other non-study related activities, etc)

Study management: the PSV approach

Prioritize-Specify-Visualize



Specify

- Each course of 5EC requires 140 study hours
- Specify what you need to do for this course: e.g. follow lectures or read the lecture slides, work out your lecture notes (after the lecture), make assignments, look for more information in the textbook, attend and prepare meetings with peers (project courses)
- Estimate for every activity how much time that is going to cost you (weekly) and indicate when extra time is required to meet deadlines for assignments or interim exams.
- If you find it difficult to plan, you can
 - Discuss with peers
 - Plan a meeting with the academic advisor ([via this link](#))
 - Consider to contact [the study management advisor](#) and to follow a study management training

Study management: the PSV approach

Prioritize-Specify-Visualize



Visualize

- Put the activity blocks in a visual 10-week agenda (1Q = 10 weeks)
 - Include lectures, guided self-study, exams
 - Indicate if they are **on-campus** or **online** (information to be found in Canvas)
 - Allow yourself some free time for sports, leisure, meeting friends etc.
 - For Q1: do not forget to plan the MAP activities

If the conclusion is that your agenda is too full, go back to P (PSV is an iterative approach)

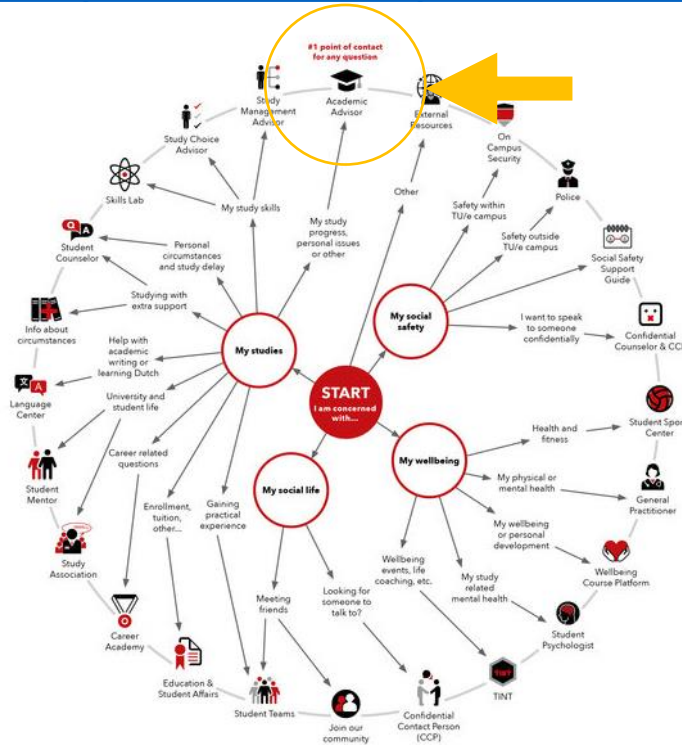
USE THE PSV APPROACH BEFORE THE START OF EACH Q

INTRODUCTION MASTER PROGRAM SET

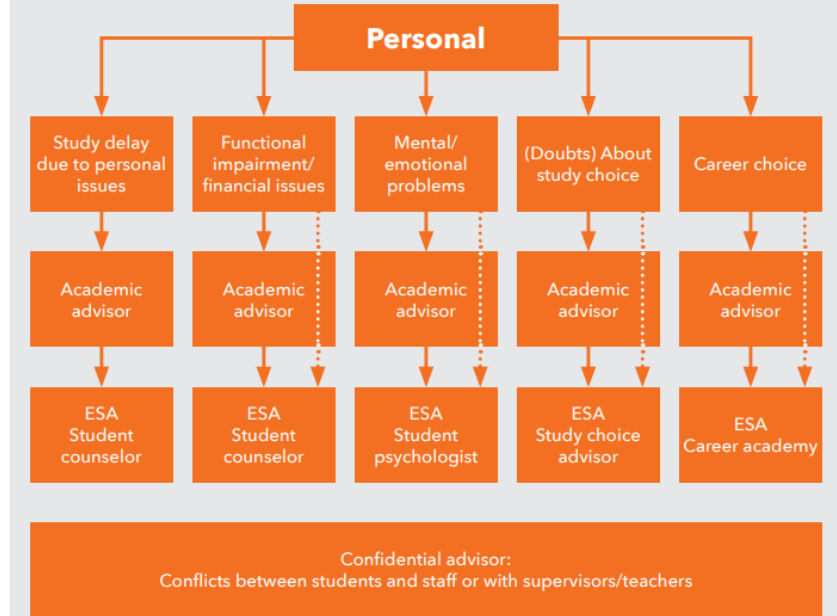
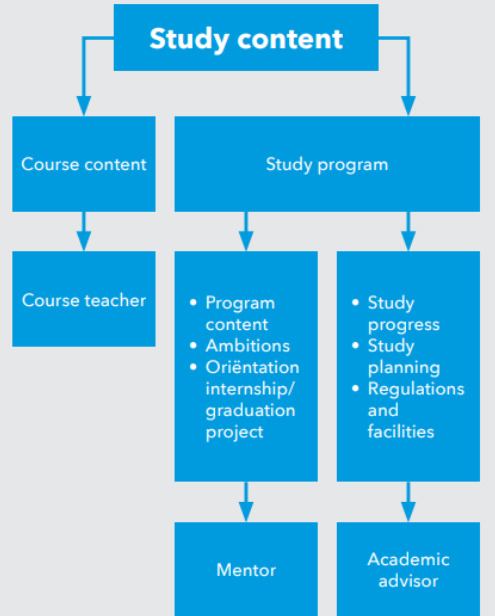
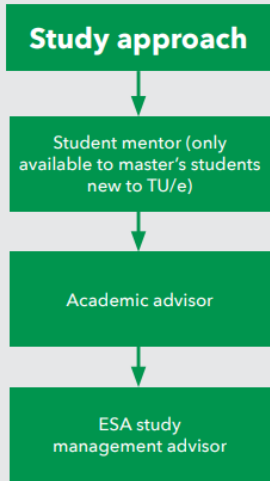
- Program Committee SET
- Academic year agenda: how to prepare yourself!
- Study management
- **Student guidance**

Where to find support?

<https://www.tue.nl/en/our-university/about-the-university/student-wellbeing/where-to-find-support>



Student guidance for master's students



Also check: <https://www.tue.nl/en/our-university/about-the-university/student-wellbeing>

More information? Check it on the [student guidance page](#). Also have a look at the [group training sessions](#) we offer.
Not sure where to go? Contact your academic advisor.

COACHING – STUDY APPROACH – PROGRESS - PERSONAL

Academic advisor: Leandro Hirose (me.academic.advisor.at.sc.set@tue.nl)

- Advice and help to enhance study progress (also in case of personal issues)
- Information about the regulations and how to organise your study
- Personal and confidential appointments

Please do not use my personal email address

- Read first the information in the education guide and on Canvas
- Ask specific questions
- Always mention your name, program (MSc SET) and student ID
- **Contact us in time**

...and join the 4INFOSET student meetings in Q1 Q2 & Q3

COACHING – STUDY APPROACH

Student mentor (for students NEW at the TU/e):

- Supports you in finding your way at TU/e, the campus and the city of Eindhoven
- First point of contact in your first week at TU/e
- Organizes several group and individual meetings (attendance is recommended)
- Various topics will be covered (study, culture, education systems, exams, sports & leisure, etc.)

The student mentor for MSc SET is Louis.

COACHING – STUDY CONTENT

Mentor (academic staff member)

- Guides you in choosing your specialization electives and in compiling your curriculum
- Guides you in making a choice for an internship & graduation project and in finding a subject and location
- Discusses your plans to improve your professional skills
- Supports you in thinking about your career path

Internship supervisor: Is responsible for your internship project (can be your mentor)

Thesis supervisor: Is responsible for your graduation project (can be your mentor and/or internship supervisor)

Q&A



ENJOY YOUR MSC PROGRAM!