



Mechanical Engineering

Program information 2023-2024 MKO

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Mechanical Engineering

WELCOME!

WHO ARE WE?



Hans Kuerten

Program director

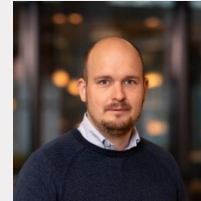
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Academic year agenda: Q1

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
4 September	Start courses
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

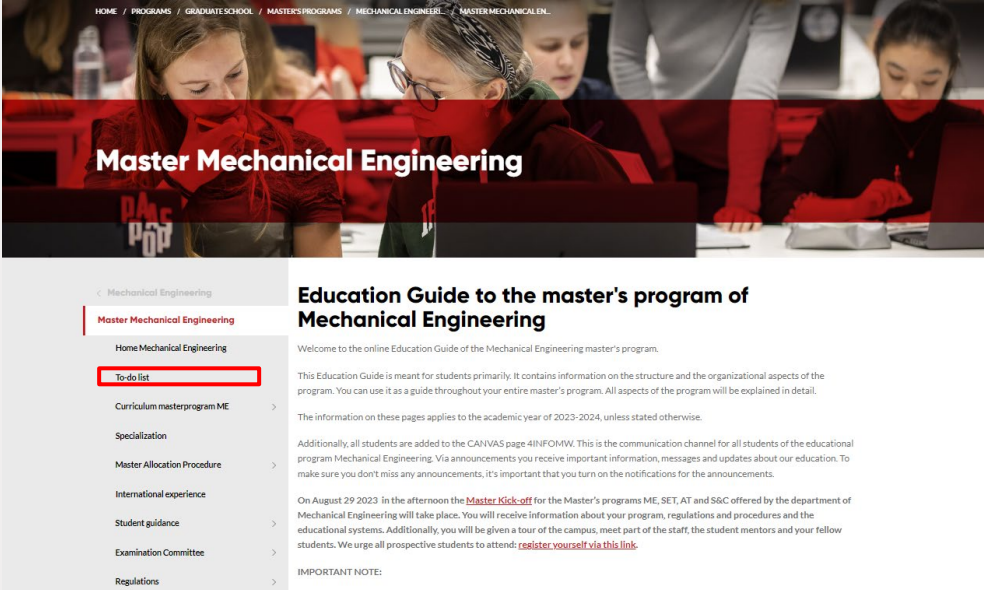
- The deadlines for Q1:
 - deadline for course registration was Aug 27, AKR (administrative cost regulation; 20€) deadline is 1 Sept 5PM. For new TU/e students (only!) the Q1 deadline is extended to Sept 8!
Send an e-mail to: esahelpdesk@tue.nl; Subject: 'aanmeldverzoek' followed by 'course code'.
 - Deadline for exam registration is Oct 16.
 - After the deadline registration is no longer possible!
- 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

EDUCATION GUIDE ME

<https://educationguide.tue.nl>

Go to:
Graduate School
Master's programs
Mechanical Engineering



HOME / PROGRAMS / GRADUATE SCHOOL / MASTER'S PROGRAMS / MECHANICAL ENGINEERING / MASTER MECHANICAL ENGINEERING

Master Mechanical Engineering

- < Mechanical Engineering
 - Master Mechanical Engineering
 - Home Mechanical Engineering
 - To-do list
 - Curriculum masterprogram ME
 - Specialization
 - Master Allocation Procedure
 - International experience
 - Student guidance
 - Examination Committee
 - Regulations

Education Guide to the master's program of Mechanical Engineering

Welcome to the online Education Guide of the Mechanical Engineering master's program.

This Education Guide is meant for students primarily. It contains information on the structure and the organizational aspects of the program. You can use it as a guide throughout your entire master's program. All aspects of the program will be explained in detail.

The information on these pages applies to the academic year of 2023-2024, unless stated otherwise.

Additionally, all students are added to the CAI/IVAS page 4INFORMW. This is the communication channel for all students of the educational program Mechanical Engineering. Via announcements you receive important information, messages and updates about our education. To make sure you don't miss any announcements, it's important that you turn on the notifications for the announcements.

On August 29 2023 In the afternoon the **Master Kick-off** for the Master's programs ME, SET, AT and S&C offered by the department of Mechanical Engineering will take place. You will receive information about your program, regulations and procedures and the educational systems. Additionally, you will be given a tour of the campus, meet part of the staff, the student mentors and your fellow students. We urge all prospective students to attend: [register yourself via this link](#).

IMPORTANT NOTE:

Information for students on program, regulations and procedures.

Important file is the to-do list and for now the pages 1 & 2.

IN THIS PRESENTATION

- **Curriculum Master's program ME 2023-2024**
- Specialization via registration research group – MAP procedure
- Broadening your master's program
- Coaching and important regulations Graduate School
- How to prepare yourself?

PROGRAM STRUCTURE

Courses (60)	
Internship (15)	Graduation project (45)

One quarter = 15 EC = 10,5 weeks
Most courses are 5 EC = 3 courses per quarter

Advice = Make your own program schedule and discuss with your teacher mentor!

ME PROGRAM STRUCTURE '23-24'

(2 YEARS – 120 EC)

Core program	20 EC	
Specialization courses	20 EC	→ PART OF YOUR SPECIALIZATION'S PROGRAM
Professional Skills	5 EC	
Individual Program / Free Electives	15 EC	
Internship	15 EC	→ PART OF YOUR SPECIALIZATION'S PROGRAM
Graduation Project	45 EC	→ PART OF YOUR SPECIALIZATION'S PROGRAM

ME CORE COURSES (20 EC)

- All courses are 5 EC
- You have to select 20 EC from the ME CORE [courses list 23-24](#) (education guide)

- Selection can depend on:
 - Your specialization / section / research group
 - Your interests
 - Time slots
 - Study planning,

- The Examination Committee has to approve your entire program!
- It is strongly recommended to discuss your core courses with your TU/e mentor as (s)he has to approve your master program.

ME SPECIALIZATION COURSES (20 EC)

- You have to select 20 EC from the ME specialization [course list 23-24](#) (education guide)
- Courses are linked to and offered by a section
- Most courses are 5 EC, some are 2.5 EC
- Always in consultation with your TU/e mentor; The mentor has to approve your specialization's program

- Your selection can depend on....
 - Your specialization / research Section
 - Your interests
 - Prior knowledge needed for graduation project
 - Your study planning
 - Time slots
 -

ME PROFESSIONAL SKILLS (5 EC)

- You have to complete two mandatory courses (each course is 2.5 EC)
- Purpose = to prepare yourself for your future career as an engineer.

1. 4WM00 Coaching and tutoring (group dynamics, leadership, project planning,...)
2. 4WM10 Career Development (orientation of future career, assessment, networking....)

PAY ATTENTION:

For students without experience in Challenge Based Learning (DBL/CBL/OGO), a compulsory alternative is offered for the Career Development course 4WM00:

4WM50 – Team work and academic writing (2.5EC)

< Master Mechanical Engineering

Curriculum masterprogram MW

Core courses

Specialization elective courses

Free elective courses

Internship >

Graduation project >

Professional Skills

Curriculum mastertrack AIES - MW

Curriculum mastertrack MSE - MW

There are two *mandatory* courses on professional skills: Coaching & Tutoring (4WM00) and Career Development (4WM10). These courses are designed for Mechanical Engineering students specifically. Both courses are 2.5 EC.

4WM10 - Career Development (2,5 EC)

In this course it's all about you and your (future) career. How do you present yourself, do you know your strengths/weaknesses, how can you improve your CV and networking skills? What do companies/recruiters look for in a candidate? This course offers you lots of opportunities but also asks for a proactive attitude; it's up to you what you gain from it! We recommend you to take this course at a stage in your program where you're seriously thinking about your career.

4WM00 - Coaching & Tutoring (2,5 EC)

In the Coaching & Tutoring course you act as a tutor for two groups of bachelor students working on a project. You monitor the group process, individual contributions of each group member and give coaching in case of problems.

Make sure that you are available for the tutor training: it's mandatory! It takes place in the week before the start of the quarter. Check Osiris/Canvas for details.

- **IMPORTANT: entry requirement and substitute course**

Note that there's an entry requirement for 4WM00 (Coaching and Tutoring): students need to have experience with CBL (Challenge-Based Learning, OGO in Dutch). This is offered only in the Bachelor programs of Mechanical Engineering and Biomedical Engineering at TU/e. Students who do not meet this requirement (all students with a different bachelor degree) need to follow the substitute course 4WM50, Groupwork and Academic Writing. This course is 2.5 EC. In 4WM50 you work on a group project. Special attention is given to team work skills, peer feedback and academic writing.

FREE ELECTIVES (15 EC)

Purpose = to adapt your program to your needs:

- TU/e-wide courses on MSc level
- Homologation courses
- Specialization courses
- 5 EC extension of internship
- Academic Writing in English
- EuroTeq Courses

< Master Mechanical Engineering

Curriculum masterprogram MW

Core courses

Specialization elective courses

Free elective courses

Internship

Graduation project

Professional Skills

Curriculum mastertrack AIES - MW

Curriculum mastertrack MSE - MW

You have to choose 15 EC in free electives courses. These courses can be freely chosen from all TU/e master level courses.

Individual space

In the individual program students are free to choose out of all Master courses offered at TU/e (under certain restrictions like no significant overlap with other approved courses). Students who want to use the individual space to broaden and/or deepen their knowledge in a chosen specialization, are referred to a list with [recommended courses for the individual space](#). N.B. always check the current course scheduling information on OSIRIS

Avoid overlap

When you select courses in your (free) elective space, you need to avoid overlap. The content of any combination of courses in your personal curriculum shouldn't cover the same topic. In case of doubt, check with the lecturers involved or with your mentor.

Broadening

If you want to broaden your horizon even further, [check out](#) the many other recommendable trainings and certificate programs TU/e has to offer, like study management, English and Dutch courses, entrepreneurship, etc.

Discuss all options /wishes with your TU/e mentor.

Be aware: overlap between courses is not allowed (in free electives and specialization).



EuroTeQ Course

Catalogue

Mechanical Engineering courses at European partners

- Take virtual courses at our EuroTeQ partners
- For Master's students Mechanical Engineering
- Possibilities for recognition in your own programme have been identified
- **Scan the QR code for the list of ME courses**
- Check out www.euroteq.eu/courses



INTERNSHIP

- 15 EC = 11 weeks (including writing an internship report) fulltime job
- Extension is optional, up to 20 credits (5 EC from free electives can be used for this extension)
- Fixed time periode which will be monitored.

- GOAL:
 - To link theory to practice (research / project)
 - To learn and develop scientific research skills
 - To prepare yourself for your graduation project

- WHERE:
 - We encourage (Dutch) students to go abroad: university, research company. International students we strongly advice to do an internship in the Netherlands.

ALL- GRADUATION PROJECT (45 EC)

The graduation project is split up into three separate parts:

1. Preparation phase (2-6 weeks)

➤ Goal: literature study, definition project goals and content, project planning

2. Project phase (6 to 8 months after completion phase 1)

➤ Goal: execution of the project

3. Defense and grading phase (1-4 weeks)

➤ Goal: Presentation, defense and grading of the project

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MASTER ALLOCATION PROCEDURE - MAP

- Specialization via registration procedure at a section!
- In order to select a research group you have to follow the MAP procedure
- Once a year (April-June)
- It's an allocation procedure: students are allocated to divisions based on their preferences and the available supervision capacity per division.

Who isn't allocated yet?

Contact Academic Advisor via mail (ME.Academic.Advisor.MSc@tue.nl)!

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BROADENING

Double Degree

Honors track

Certificate programs

Extra courses

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

Go through the information yourself.

Questions? Contact the academic advisor.

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COACHING

Teacher Mentor (staff)

- Supervises you with composing your curriculum (master program: core, specialization and electives).
- Guides you in finding a suitable internship and graduation project.
- Discusses your plans to improve your professional skills.
- Supports you in thinking about your career path.

Please make sure to contact your mentor to discuss these topics.

Do you know who your mentor is? Have you made an appointment to discuss your master program and planning?

Student Mentor (senior students: Ram & Lars)

- *Only for 'new TU/e students'*
- Helps you get started and practical questions
- More information will follow

COACHING - ACADEMIC ADVISOR



- Advice and help to enhance study progress (practical questions, making a planning, information about curriculum, personal circumstances)
- Information about how to organise study issues and regulations
- All appointments are personal and confidential

Mail: ME.Academic.Advisor.MSc@tue.nl

Appointment (online/on-campus): [Mechanical Engineering \(tue.nl\)](https://mechanical-engineering.tue.nl)

COACHING - ACADEMIC ADVISOR

Reactive support

- Please feel free to ask your questions. It is always possible to make an appointment!

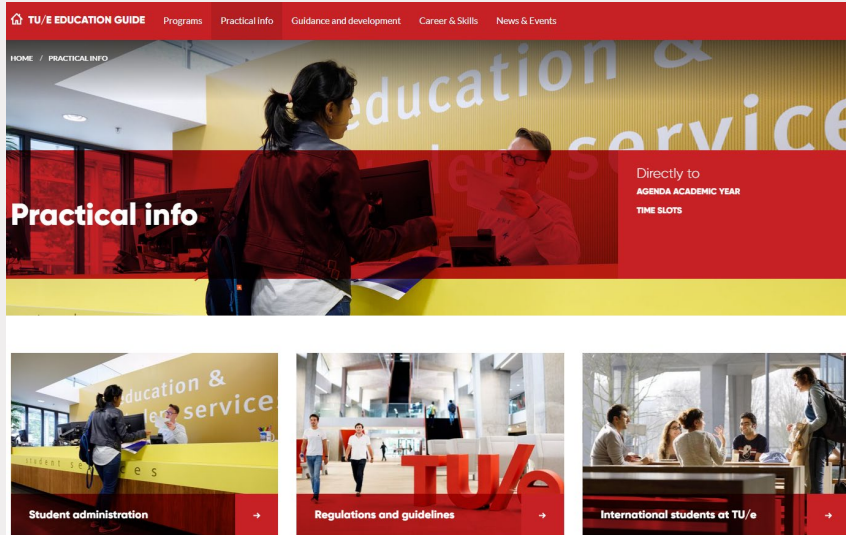
Proactive monitoring

- Courses
- Internship
- Graduation Project

ME Meetings

- Internship meeting (March)
- Graduation project meeting (June)

GS education guide practical information



Check:

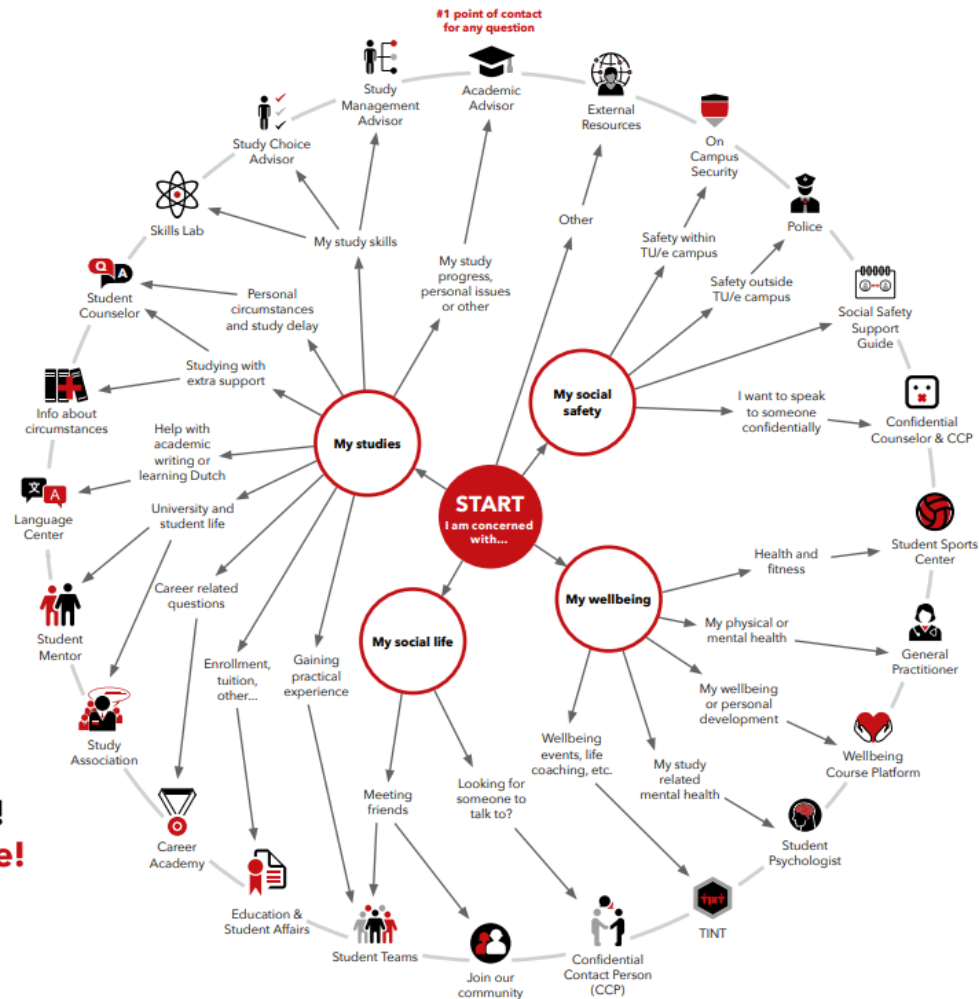
Academic Year Agenda

Wellbeing

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<https://educationguide.tue.nl/practical-info/>

**Tip: reach out
to your friends
or family as well!
You are not alone!**



TU/e
EINDHOVEN
UNIVERSITY OF
TECHNOLOGY

TU/e

STUDENT WELLBEING

Who to contact and when?

- **Academic advisor:** first point of contact, regarding your study progress, personal circumstances
- **Student counselor:** provide information and advice about a range of matters that are not directly related to the content of your study program (IND requirement, personal circumstances for a longer period of time, financial support etc.)
- **Student psychologists:** if you feel in danger of becoming swamped by personal issues that are interfering with your studies and you are looking for help with this, or you have other questions about your well-being or mental health

.....

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Source: [Whom to contact \(tue.nl\)](https://www.tue.nl/en/study/whom-to-contact)

STUDENT WELLBEING

Online platforms

- Skills trainings: [Group training sessions \(tue.nl\)](https://www.tue.nl/en/study/skills-training-sessions)
- Well-being: [Student wellbeing \(tue.nl\)](https://www.tue.nl/en/study/student-wellbeing) and [Gezondeboel](https://www.gezondeboel.nl/)

STUDY MANAGEMENT



SFC01 – Graduation group: To the finish line... but not all by yourself!

Students who are in the final phase of their bachelor's or master's program, but need some support for the completion of their Bachelor's Final project (BEPF) or graduation project.

[READ MORE →](#)



SFC03 – Planning & Setting goals: Do you struggle to keep up with your studies?

Optimize your study and study behaviour by setting concrete goals.

[READ MORE →](#)



SFC29 - Planning and setting goals for students with ASD and/or AD(H)D

Students with ASD or AD(H)D often have difficulty planning and organizing their studies. In this workgroup we tackle this issue.

[READ MORE →](#)



SFC02 - Tackling procrastination

"I really plan to start tomorrow!" If you are busy with these types of thoughts today, this training might be something for you.

[READ MORE →](#)



SFC05 - Effective Learning

The course offers various themes of study management, such as actively following lectures and instructions, weekly planning and taking exams. You learn to actively get started with this in your own study.

[READ MORE →](#)

PERSONAL DEVELOPMENT



SFC31 CBT Course (Cognitive Behavioural Therapy)

If you are ready to identify and challenge any negative thinking (and behavioural) patterns and improve the way you feel and act, this course may be for you.

[READ MORE →](#)



SFC30 - Come into ACTION

The course is open for all students who experience psychological issues, such as stress, anxiety or (mild) depression issues, and who are already aware of their 'thinking errors' and/or have already tried to put things in perspective.

[READ MORE →](#)

GS REGULATIONS

Registration Courses

- You have to register for your **courses and exams** in Osiris!
 - Deadline Osiris Q1 27 August
 - Extended deadline until 8 September via esahelpdesk@tue.nl (for new TU/e students!)
- A course registration also includes the exam registration. Attention: make sure to use the check mark 'exams' in Osiris.
- Please, check the **deadlines** ([Academic year agenda \(tue.nl\)](https://www.tue.nl/academic-year-agenda)):
 - 5 working days before quarter 1
 - 20 working days before quarter 2, 3 and 4
 - Have you missed the deadline? AKR deadline!
 - Up to fifteen working days prior to the beginning of teaching in quarter 2, 3 and 4 = 20,- administration costs
 - Have you missed this extended AKR deadline? Then registration is not possible anymore.

GS REGULATIONS

Registration exams

- You are only allowed to take the exam with an exam registration (Osiris).
- You can withdraw until 5 working days prior to the exam period.
- You have to register for re-exams. This is not done automatically.

GS REGULATIONS

Registration exams

AKR applies to course registrations as well as to **exam registrations**. Check the registration deadlines and procedure:

- Exam registration deadline = up to 10 working days before examination period
- Have you missed the deadline? AKR deadline!
Up to five working days prior to the beginning of the exam period = 20,- administration costs
- Have you missed this extended AKR deadline? Then registration is not possible anymore.
You can't participate in the exam.

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HOW TO PREPARE FOR YOUR MSc PROGRAM?

Course registration / exam registration when enrolling per September 2023?

- While waiting for your bachelor exam and master enrollment, you have to subscribe for master's courses (check deadlines).
- **Be aware!** This is only a course registration. You cannot register yet for exams. You still need to do this as soon as you have received a master's enrollment. Check exam registration deadlines.

Quarter 1 Start following courses

Make an appointment with your mentor to discuss your program

Find out who your mentor is? Please contact the secretary of the research group within the division you have been allocated to.

HOW TO PREPARE FOR YOUR MSc PROGRAM?

Be informed

- Read all information about the master's program at <http://educationguide.tue.nl>
Master ME: [Master Mechanical Engineering \(tue.nl\)](#)
- Check the ['To-do list'](#)
- Check the website [online information systems](#). (OSIRIS,Canvas,Mytable,Education guide)
- Check 4INFOMW (canvas)
- Mandatory CANS (RSI) and Health & safety (online) training via 4INFOMW. (only for new students)



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