Master Kick off – Get to know your program
Master Automotive Technology

Ann De Veirman – academic advisor AT
Marike Koopmans – program coordinator AT

August 2023
## WHO ARE WE?

### STAFF BEHIND THE SCENES – MASTER AT, S&C, SET

<table>
<thead>
<tr>
<th></th>
<th>Program Director AT</th>
<th>Manager ESA-ME</th>
<th>Academic advisor AT, SET &amp; SC</th>
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<tr>
<td>Theo Hofman</td>
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<td>Yves Houben</td>
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<td>secretory EC AT, SET &amp; SC</td>
<td>CSA officer AT, SET &amp; SC</td>
<td>Internationalization officer ESA-ME</td>
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2 Master Kick-off 2023 – Automotive Technology
INTRODUCTION MASTER PROGRAM AT

• Academic year agenda: how to prepare yourself!
  • Study management
  • Coaching
  • Student life at TU/e
## Academic year agenda: Q1

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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 Sept 1 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
AT: an interdisciplinary study

Cooperation between 5 departments:
• Electrical Engineering
• Industrial Engineering and Innovation Sciences
• Industrial Design
• Mathematics and Computer Science
• Mechanical Engineering

Mechanical Engineering is the coordinating department.

You will be allocated for your specialization within one of these departments.

But remember: the procedures and regulations for the MSc program AT apply to you, not the procedures of the department or section where you are allocated!
# Program overview & core program

## Year 1
- Core program (30 EC)
- Specialization courses (15 EC)
- Free electives (incl. homologation, 15 EC)

## Year 2
- Internship 15 EC
- Graduation project 45 EC

### Course Overview
- **4AT000 Vehicle dynamics (Q1, ME)**
- **0HM310 Automotive human factors (Q1, IE&IS / ID)**
- **4AT100 Automotive systems engineering project (Q3/Q4)**
- **2IN70 Real-time software system engineering (Q2, MCS)**
- **4AT060 Powertrains (Q2, ME/EE)**

*Students who completed the course 4RC20 during their BSc program. 4AT060 will be replaced by the course 5AT010 Electric Components (2,5 EC) and one specialization course (min. of 2,5 EC) from the list of specialization courses 20/21*
COURSES: FOR SPECIALIZATION

- 15 EC for specialization courses
- Choose from the list ‘courses MSc AT 2022/23’
- Courses are linked to (offered by) a section
- 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: 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
- an extension of the internship with 5 EC
- deficiency courses (determined by the admission committee or in consultation with mentor)
- homologation modules that are offered for AT, and complementary to the student’s background
COURSES: FREE ELECTIVES (15 EC)

Be aware:
- No overlap between courses allowed (in free electives and specialization)
- You need approval of the courses

TU/e courses on Bachelor level only if:
- indicated as necessary by the department admission committee upon admission to the program and/or
- necessary as personal deficiency courses and/or
- necessary as homologation module for specific groups of students
- max 15EC; approval of examination committee required
HOMOLOGATION COURSES

Opportunity to work on deficiencies

• **4MW20** Matlab simulink (2.5 EC, Q1)
  ➢ For international / non-TU/e students without matlab experience -> **strongly recommended**

• **2IHC10** C++ and computer organization (2.5 EC, Q1)
  ➢ Only for students without any knowledge on this subject -> **strongly recommended**

• **4SE010** Heat, flow and thermodynamics (2.5 EC, Q1)
  ➢ For BSc electrical engineering
  ➢ Not needed for BSc Mechanical Engineering!

No permission of examination committee required, approval of mentor required
# Academic year agenda: Q1

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MASTER ALLOCATION PROCEDURE (4MAPAT)

Implemented within the Department of Mechanical Engineering to allocate students to sections:

• affects students within the sections in the Department of Mechanical Engineering
• can also affect students choosing a section in one of the partner departments

For more detailed information go to educationguide.tue.nl
## TIMELINE MAP (4MAPAT)

<table>
<thead>
<tr>
<th>Centrally organized specialization information meeting</th>
<th>Possibility for sections to organize an extra information meeting</th>
<th>1\textsuperscript{st}, 2\textsuperscript{nd} and 3\textsuperscript{rd} preference for a section in OSIRIS STUDENT: 4MAPAT / 4MAPSET</th>
<th>Selection round 1</th>
<th>Selection round 2 / 3</th>
<th>Allocation in second half of week 5</th>
<th>Allocation in second half of week 6</th>
</tr>
</thead>
</table>
| Week 2 of Q1 11 – 15 Sept | Week 3 – 4 of Q1 18 – 29 Sept | Deadline 2 Oct 2023, 9:00 AM  
Open: Tuesday 19 Sept | Week 5 of Q1 2 – 6 Oct | First half of week 6 of Q1 9 – 13 Oct |

Specialization meeting AT September 14 (Thursday afternoon)
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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 during the first quarter.

MANDATORY under Dutch law

Your presence will be checked
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:

<table>
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<tr>
<th>Year 1: Master Kick-off (August)</th>
<th>Specialization meeting AT (September 14th)</th>
<th>Year 1: Q2 meeting (November)</th>
<th>Year 1: Q3 meeting (March)</th>
<th>Year 1: Q4 meeting (May)</th>
<th>Year 2: Q1 meeting (October)</th>
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<tr>
<td>Program Introduction</td>
<td>Specialization choice - MAP</td>
<td>Specialization choice</td>
<td>Quality assurance: NSE</td>
<td>How to organise your internship?</td>
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<tr>
<td>Study management &amp; coaching</td>
<td>Information session about specialization options</td>
<td>To do list</td>
<td>Practicalities</td>
<td>How and when to search for a graduation project?</td>
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<tr>
<td>Information &amp; support</td>
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<td>Registration exams and Q2 courses</td>
<td>How to find an internship?</td>
<td>How to organize the graduation project (online meeting)</td>
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<td>Fraud basics</td>
<td>Evaluation</td>
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INTRODUCTION MASTER PROGRAM AT

• Academic year agenda: how to prepare yourself!
• Study management
• Coaching
• Student life at TU/e
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, 4INFOAT, etc.
- **MyTimetable**: personal time schedule

More information + videos: [https://educationguide.tue.nl/studying/services/online-systems/](https://educationguide.tue.nl/studying/services/online-systems/)
ONLINE EDUCATION GUIDE
https://educationguide.tue.nl/
Go to: Programs > Graduate School > Master’s Programs > Automotive Technology

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

Regularly check the to-do list!
4INFOAT (CANVAS, MANDATORY)

Read your TU/e mail!

Student information meetings will be announced here.
Student information will be posted here.

You will be added to the course, if not do it yourself!!!!
Study management: the PSV approach
Prioritize-Specify-Visualize

Prioritize:

• Register for 15EC courses
  ➢ 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)
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 AT

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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.
Where to find support?

COACHING — STUDY APPROACH — PROGRESS - PERSONAL

**Academic advisor**: Ann De Veirman (me.academic.advisor.at.sc.set@tue.nl)
- First point of contact
- 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 AT) and student ID
- **Contact us in time**
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.)

There are 3 student mentors (Aryan, Dimitrios, Pruthvi).

NEW THIS YEAR:
The student mentors will also invite MSc AT students who studied already at the TU/e to join some of the meetings of the mentor groups (please join the meeting in wk3).

Goal: to help you to get to know all students in your MSc program.
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 graduation project (can be your mentor)

Thesis supervisor: Is responsible for your graduation project (can be your mentor or internship supervisor)
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Student life at TU/e

• Simon Stevin, study association Mechanical Engineering (lunch lectures for MSc students)
• EIRES: Energy lectures
• Cosmos, international students
• Students Sport Centre
• Student teams
• Teaching assistant
• ....

Questions? Discuss with your student mentor!
If you have additional questions ...

- Contact the academic advisor (Ann De Veirman)
  E-mail: academic.advisor.at.sc.set@tue.nl