

An aerial night photograph of the TU/e campus in Eindhoven. The image shows several modern buildings with illuminated windows, a prominent red tower in the background, and a road with light trails from traffic. A semi-transparent red rectangle is overlaid on the middle of the image, containing the text.

Welcome and information: (pre)master programs ABP and CME

Department of the Built Environment

Welcome to our (pre)master programs



Prof. ir Bert Snijder
Graduate Program Director

Introduction to the Master Programs ABP + CME

Prof. ir Bert Snijder (Graduate Program Director)

Department of the Built Environment

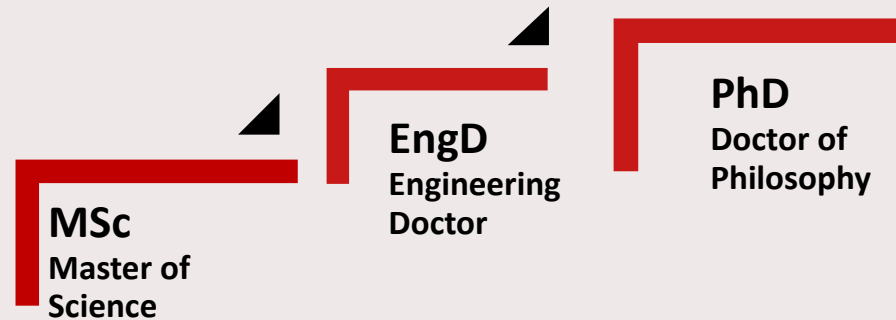
Aim

- Introduction
- Master of Science



Graduate School

- Graduate School of TU/e offers:
MSc, EngD and PhD programs
 - MSc: prepares for professional or academic career – 2 years
 - EngD: design oriented, more ‘practical’ – 2 years
 - PhD: research oriented, more ‘theoretical’ – 4 years
- Academic community
 - MSc students have contacts with staff members, and EngD and PhD students



Graduate School

Master of Science

- Department of the Built Environment offers:
 - Two MSc programs
 - One EngD program
 - One PhD program

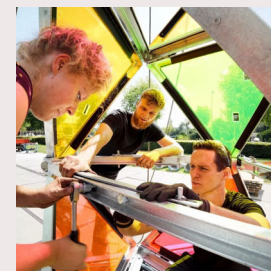
MSc Master of Science

Architecture
Building and
Planning
ABP

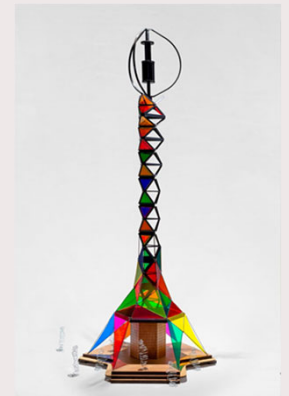
Construction
Management and
Engineering
CME

EngD Professional doctor in engineering

Smart
Buildings and
Cities
SBC



PhD Doctor of Philosophy

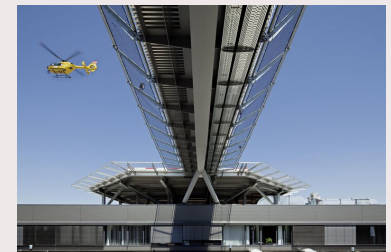
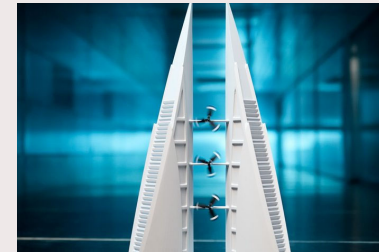


Graduate School

ABP – main master tracks:

- Architectural Urban Design and Engineering **AUDE**
- Urban Systems and Real Estate **USRE**
- Building Physics and Services **BPS**
- Structural Engineering and Design **SED**
- Sustainable Urban Mobility Transition **SUMT** *
- Smart Mobility Data Science and Analytics **SMDSA** *

* special admission requirements + 2 universities involved



Graduate School

CME:

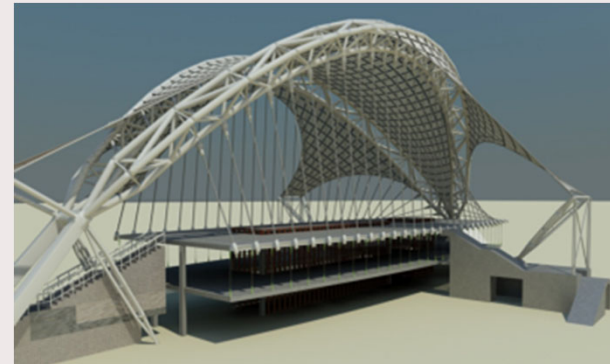
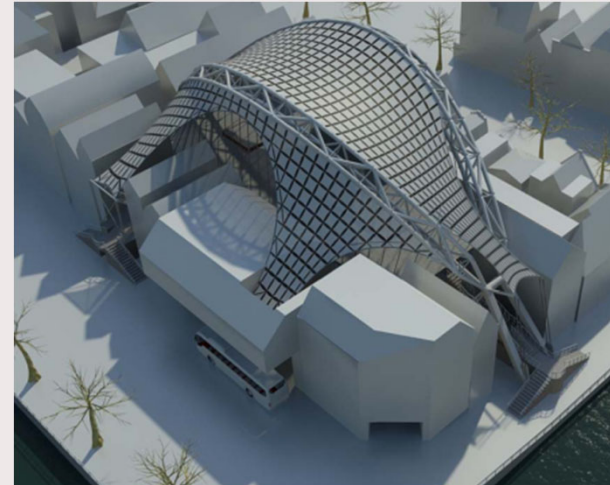
- Development and execution of urban development processes in smart cities
- Jointly by the departments Built Environment (BE) and Industrial Engineering and Innovation Sciences (IE&IS)
- 4TU.Federatie: electives at 3 universities
- Graduation tracks:
 - City Information Management
 - Building Information Management



Graduate School

Possible combinations:

- Within ABP: double tracks
 - Architecture and Urban Design
 - Architecture and SED
 - Architecture and BPS
 - Architecture and USRE
- CME with ABP/USRE: double degree
- Many possibilities in shaping your Personal Study Program



Graduate School

International Experience:

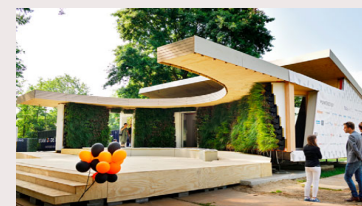
- TU/e recommends ≥ 15 credits obtained abroad
 - Semester at partner university
 - Research internship
 - Part of the graduation project



Graduate School

Student teams:

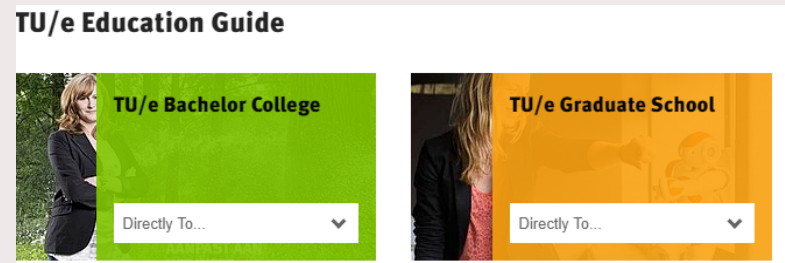
- Beer crate bridge
- Printed bridge Gemert
- CASA house Brainport Smart District
- VIRTUe
- **Towards Challenge Based Learning**



Sources of information

- **Education Guide (educationguide.tue.nl)**
 - Programs / tracks
 - Regulations
- **MyTU/e student portal**
 - Osiris – course catalog
 - Canvas – learning environment
 - MyTimetable – timetables
 - Mobility Online

[Online systems \(tue.nl\)](https://tue.nl)



Teaching staff...

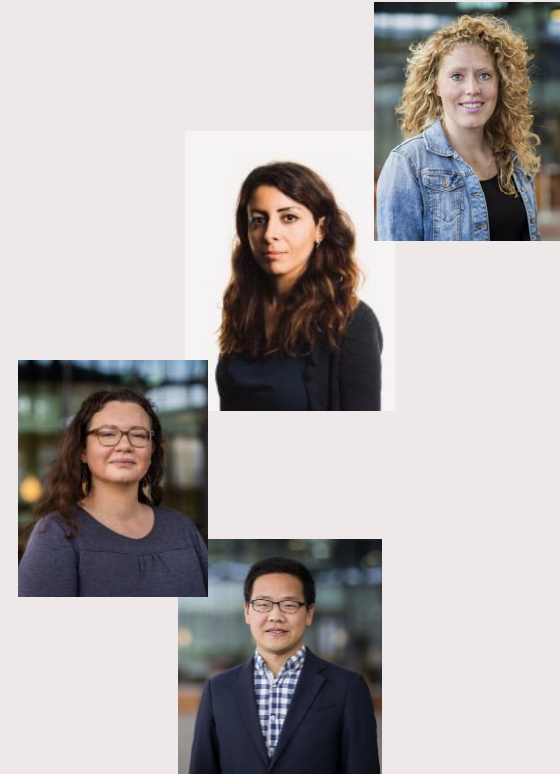
- ... is there for:
 - Knowledge
 - Guidance
 - Assignments
 - Feedback
 - Assessment

Who is your mentor?

- SED: Floor van Schie
- SUMT/ SMDSA: Soora Rasouli
- AUDE: the supervisor of your first master project is your mentor
- BPS: approach your education officer Katrin Schollbach
- USRE and CME: approach your education officer Feixiong Liao

Mentors (teacher coach)...

- ... are there to discuss:
 - Curriculum choices
 - Proper scientific behavior
 - International experience



ABP + CME structure

Core courses: 15-55 EC

Mandatory

Specialization electives: 5-35 EC

Discuss with your mentor

Free electives: 15-30 EC

MSc-level worldwide

Graduation project: 30/40/45 EC

120 EC

Course overview ABP and CME

		Quarter 1			Quarter 2		
ABP	AUDE						
		C15-S30-E30-G45					
		7QX5M0	Seminar urbanism and architecture *	ⒶⓂ A	7QX5M0	Seminar urbanism and architecture *	ⒶⓂ A
		7QW5M0	Research in urbanism and architecture II	ⒶⓂ B	7QW6M0	Architectural and urban theory	ⒶⓂ B
		7QX1M0	Masterproject 1 architecture (10 ECTS)				Ⓐ DC
All programs		7QW1M0	Masterproject 1 urbanism (10 ECTS)				Ⓜ DC
		7XW1M0	Combined masterstudio Architecture and Urban Design (10 ECTS)				ⒶⓂ DC
					7XX9M0	Urban trends and strategies	Ⓜ A
					7QX3M0	Architectural engineering	Ⓐ D
		7KS1M0	Masterproject building technology	<i>BT</i> AC	7LL1M0	Sports and building aerodynamics	A
		7QQ1M0	Architectural expression ♦*	Ⓐ B3	7QQ1M0	Architectural expression ♦ *	Ⓐ B3
		7QQ3M0	Arts and architecture ♦	E	7QX7M0	Architectural analysis ♦	Ⓐ A
		7QW7M0	Theory and practice of the public domain	Ⓜ E	7KS3M0	Practical assignment "Bouwkundewinkel" *	X
		7QX8M0	Urban form ♦	Ⓜ E	7QW8M0	The built-up heritage over time	ⒶⓂ A
		7RC100	Inner-city modular high-rise	<i>CT</i> E			
		7XX4M0	The thinking eye ♦	D			
		7XC1M0	Circularity in the built environment	<i>CD</i> A			
		7KS3M0	Practical assignment "Bouwkundewinkel" *	X			

Educationguide.tue.nl

Choices to make

- Registertrack
- Double track
- Internship (5 or 15 EC)
- Study period or internship abroad
- Certificate program
- Honors program
- Graduation topic

Discuss these choices with your mentor

ABP Register tracks

Register tracks:

AUDE- qualified to register as an architect

AUDE- qualified to register as an urban designer

Combination of register tracks:

AUDE- qualified as an architect and an urban designer
(150 EC; for selected group of students)

Note: two years of **professional experience**
are required for registration.



ABP Double tracks

Double track combinations:

- Architecture + Urbanism
- Architecture + Structural Engineering and Design
- Architecture + Building Physics and Services
- Architecture + Urban Systems and Real Estate

Characteristics:

- 150 EC (so: 120 + 30 EC or + 1 semester)
- For selected group of students
- Both tracks are stated on the diploma

Internship

Two types:

- Relevant work experience (5 EC)
- Academic work experience (15 EC)
- Abroad or not?
- For vacancies see websites of the study associations (CHEOPS, AnArchi, KOers, Mollier, ofCoUrsE!, SERVICE)
- [Internships \(tue.nl\)](https://www.tue.nl/en/study/internships)

International experience

Options:

1. Studying a semester abroad at one of our exchange partners.
2. Doing a 15 EC academic research internship abroad.
3. Going abroad for a MSc thesis related project.

See hand-outs *Study semester abroad* and *Internship abroad* in the Education Guide.

[International experience \(tue.nl\)](https://www.tue.nl/international-experience)



Certificate programs

- **Building Design and Technology**
 - 7KP8M0 Building methodology and technology
 - 7KP9M0 Building technology with extreme complexity
 - 7KS1M0 Masterproject building technology
- **Construction Technology**
 - 7RC100 Procurement
 - 7ZM7M0 Parametric design
 - 7RC50 Masterproject construction plan
- **Circular Design**
 - 7XC1M0 Circular design in the built environment
 - 7XC2M0 Circular research and design project


5 EC per program on top of 120 EC

[Certificate programs \(tue.nl\)](https://www.tue.nl/certificate-programs)

Honors master program

Explore and develop your personal leadership skills in a professional context.

- **20 EC on top of your regular program**
- **2 components**
 - **Personal leadership development (5 EC)**
 - **Professional development (15 EC)**

 Information session: 15 September 2023, 12.35-13.25, location Luna 1.240

[Master students \(tue.nl\)](https://www.tue.nl/masterstudents)

PIT: Professional Identity Training

Preparation for a career that fits you!

Content of the program



Questionnaire + report



1st training session:

Theory and understanding report



2nd training session:

Focus on career development and practical applications

Setup

- All TU/e master students
- Planned in Quartile 2 as a separate training (preparatory for internship)
- Enroll via Osiris in Quartile 1
- More information will follow via Canvas

Graduation topic

Start your orientation on a graduation topic in time.

- Use the available information: graduation guides, kick-off meetings, study associations, Canvas information
- Talk with other students, your mentor, teachers
- AUDE: graduation studios start every quartile. Topics are published in the semester brochure, 2 months before each semester

ABP: [Graduation project \(tue.nl\)](https://www.tue.nl/graduation-project)

CME: [Graduation \(tue.nl\)](https://www.tue.nl/graduation)

Registration for courses and examinations

Quarter	Registration deadline
Q1	27 August 2023
Q2	15 October 2023
Q3	7 January 2024
Q4	24 March 2024

Questions? Please contact: ESA Helpdesk via esahelpdesk@tue.nl

Registration examinations

- Registration is needed for all examinations, not only the written ones.
- Registration for examinations: automatically (except for the resits) when you register for courses....
-but only if your enrollment is finalized. If not, register via Osiris no later than October 16.
- Check your registration in Osiris!

Next steps

You will receive a letter with the following instructions:

1. If necessary, contact the education officer of your track.
2. Write your personal study plan, discuss it with your mentor, submit it to the examination committee.
3. Sign the declaration concerning the TU/e Code of Scientific Conduct, submit it to the ESA Office (esa.be@tue.nl)

Building your future: You do it yourself, but not alone!

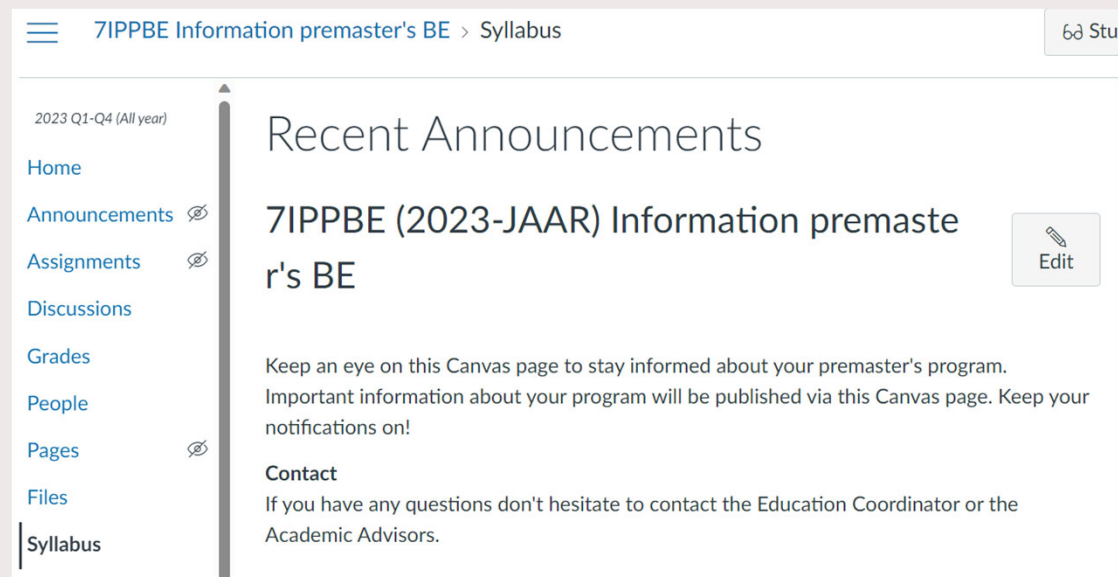
Education officers of the tracks:

- | | | |
|---------|------------------------------|--|
| • AUDE: | ir. Maarten Willems | m.h.p.m.willems@tue.nl |
| • BPS: | dr. Katrin Schollbach | k.schollbach@tue.nl |
| • SED: | dr. ir. Faas Moonen | s.p.g.moonen@tue.nl |
| • USRE: | dr. Feixiong Liao | f.liao@tue.nl |
| • CME: | dr. Feixiong Liao | f.liao@tue.nl |

Contact the education officer of the track to get a mentor assigned (except for AUDE, SED, SUMT and SMDSA).

Keep an eye on Canvas 7IMPBE (Master) or 7IPPBE (Premaster)

- Keep your notifications on!
- Important information about your study program



Academic Advisors...

... are there to help you with:

- Study related problems
- Personal issues
- Mrs. Josée Pulles, Mrs. Lisanne Kamphorst-Schmit
- Academic.advisor.msc.be@tue.nl



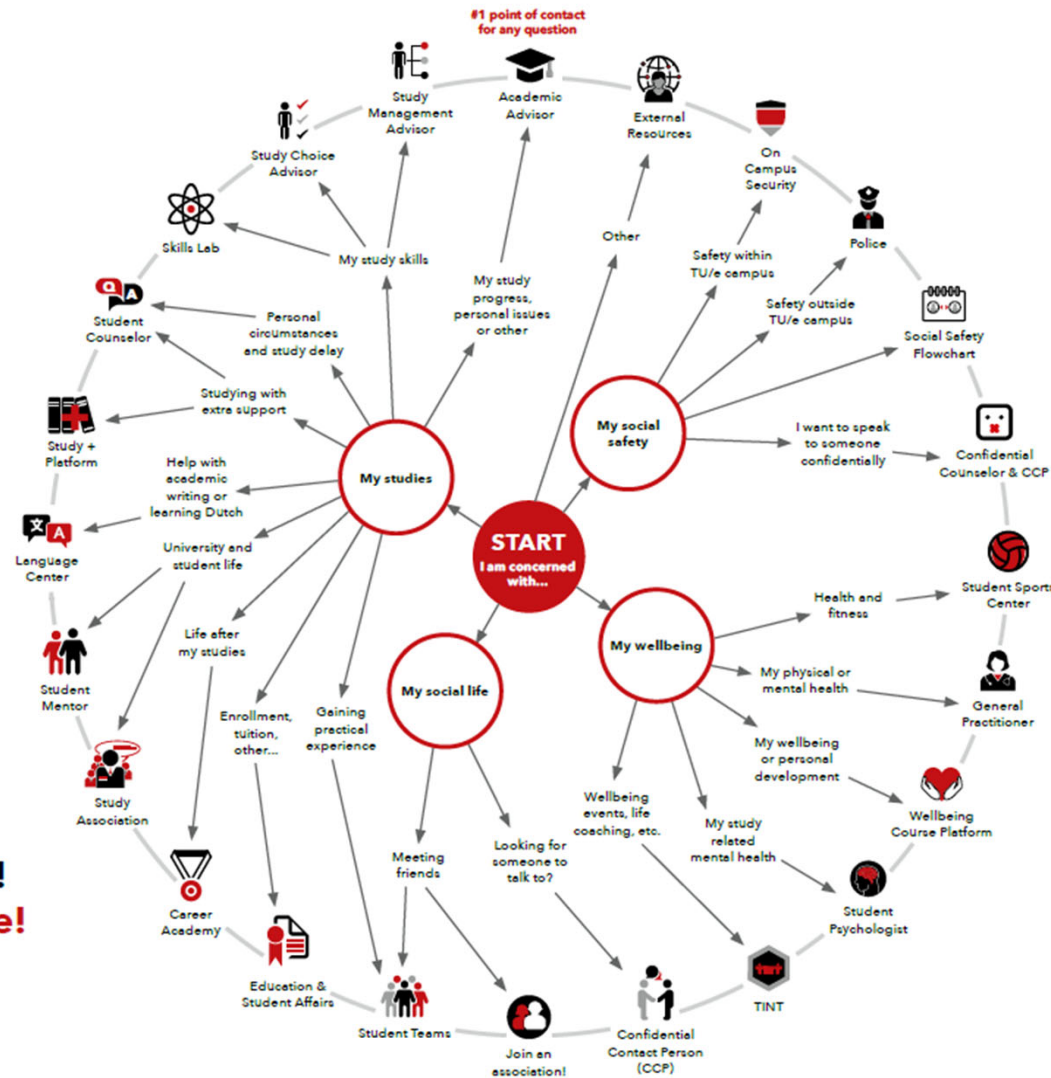
Education and Student Affairs...

... is there for specific issues:

- Where: VRT 2.12 - Make an appointment
- Information desk:
Mrs. Sylvia van Beek, Mr. Julius de Haas, Mr. Arnoud Lippmann
esa.be@tue.nl
- Education Coordinator BE:
Mrs. Judith Smits
education.coordinator.be@tue.nl
- Departmental internationalization officer:
Mrs. Henny Houben
exchange.be@tue.nl
- Secretary of the Examination Committee BE:
Mrs. Vanessa Buijsen
examination.committee.be@tue.nl



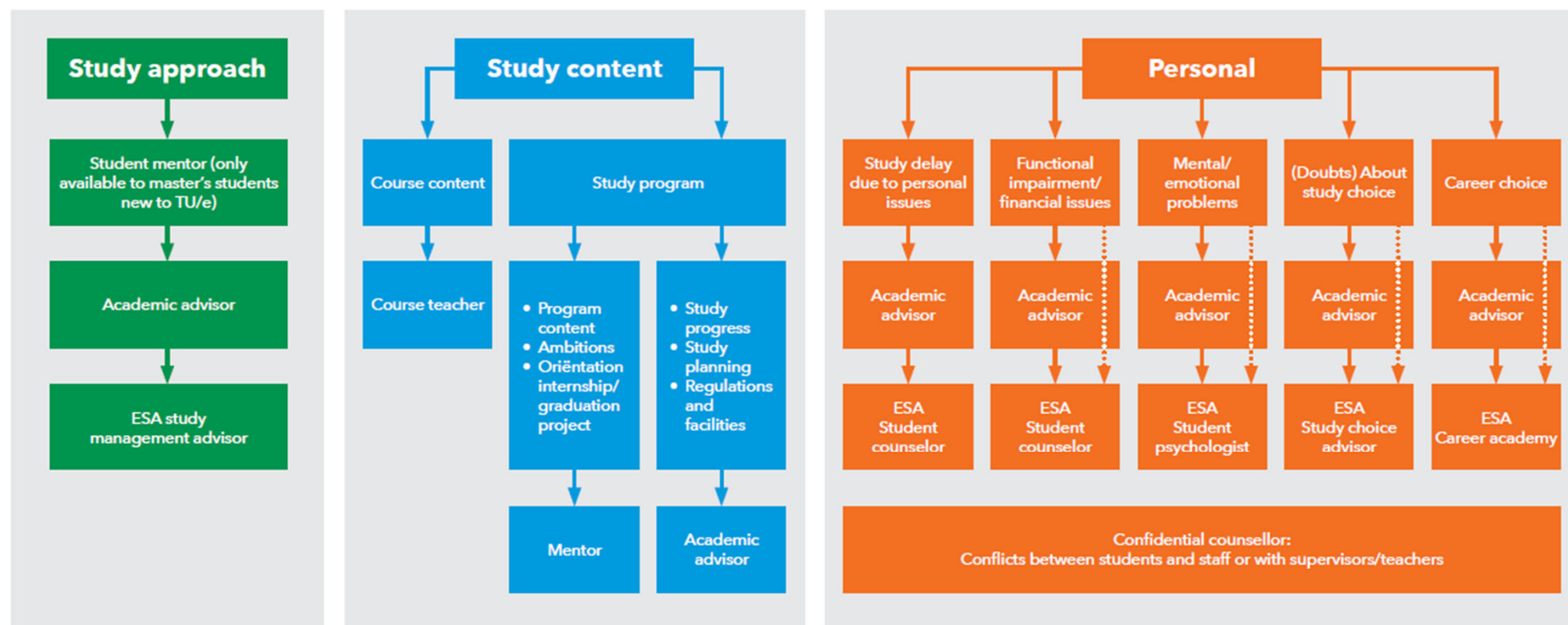
**Tip: reach out
to your friends
or family as well!
You are not alone!**



TU/e
EINDHOVEN
UNIVERSITY OF
TECHNOLOGY

TU/e

Student guidance for master's students



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.

NOW: Information about CHEOPS and quiz



Presentation per track

Track	Room
BPS	VRT 8.08
CME	VRT 7.08
SED	VRT 5.07
USRE	VRT 9.08
SUMT/SMDSA	VRT 6.06
Premaster	VRT Trappenzaal
AUDE	Atlas 0.820

Master Kick-off ABP and CME