

Own your future! Honors in the Bachelor college

Information session Honors Bachelor Program - 18-03-2024

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Honors Academy

Dean



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...and all
track
coordinators
and coaches!



**HONORS
ACADEMY** **TU/e**
Honors bachelor program

Are you ready to...

#ownyourfuture

Honors Bachelor Program

- Start in 2nd year of your regular Bachelor program in September
- Two-year program
- On top of your Bachelor program (15 EC per year)
- Apply for one of the 11 tracks
- Work with students in a multidisciplinary learning environment (project, contest, research)
- Next to track activities, also Honors Academy activities and workshops
- Personal and professional development
- You will be assessed at the end of each year
- Receive credits after your successful assessments and receive 'Honors' on your Bachelor diploma

What do the Honors students think?

"I eventually chose for the HA because I like the aspect that it is focused on **personal development** and personal **growth**. Whatever your interests are, you can **challenge** and develop yourself during these 2 years."

"The development of our own challenge is a valuable experience which helps to **come out of our comfort zone**."

"The **freedom** of choosing your own project."

"The **freedom** to develop what you think is important for you."



What do the Honors students think?

"Working on this project has monumentally helped me to develop my **professional skills**, especially in the areas of leadership and communication. I would never have expected to be this comfortable and confident in my presenting skills and to have spoken on the stages I have, and this wouldn't have happened without my honors program."

"Thanks to honors **coaching**, doing an extra project became a much more valuable development process for me, with very **systematic reflection** on my personal development."



What do the Honors students think?

"I think I had a fantastic additional experience on top of my regular bachelor program that I would otherwise not have had. (...) It has allowed me to work on a **real, and societal relevant problem** that I was genuinely interested in."

"You meet new **people**, all with a **similar kind of 'drive'** and you get to work with them, which is really beneficial to your own development."



Are you ready to...

#ownyourfuture

Who are we looking for? Admission requirements

Students who are:

- very motivated to work on their personal development
- looking for an additional challenge on top of their regular program
- able to study their regular program at a nominal rate:
 - 60 EC in 2023/24, and
 - 60 EC in 2024/25 (1st honors year)

No minimum average grade is applicable

In doubt? Consult your academic advisor.



In one of the 11 tracks



Artificial Intelligence



Competitive Programming
and Problem solving



Empowerment for Health
and Wellbeing



Energy Transition



High Tech Systems



Networked Society



Nuclear Fusion Power
for the Netherlands



Radio Astronomy



SensUs Organization



Smart Cities



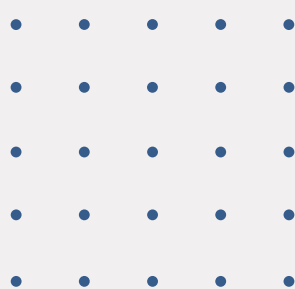
Smart Mobility

Honors Academy AI Track

- Work in Groups of four on a joint topic
- Train your own AI model
- Use small datasets/toy data to evaluate your idea
- Exploration of ideas instead of hyperparameters

Information Session:

Tuesday, 26 March 13:45-14:45 MF13



ChatGPT

ChatGPT which interacts in a natural language format makes it possible to ask questions, admit its mistakes, and reject inappropriate

Honors track: Competitive Programming and Problem Solving

Introduction Event: March 21, 13:30 – 17:00, Atlas -1.825

Sign up: send email to k.a.b.verbeek@tue.nl



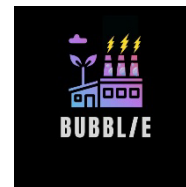
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Energy Transition

- Develop your own Energy project!
- Work in multidisciplinary teams
- Work with external partners, build up a network
- Learn to present and discuss with peers, companies and professors



CyanO2



Rust2Iron

Info session: 19 March 12:30-13:30, Atlas -1.715

email: j.m.n.v.kasteren@tue.nl

Empowerment for HEALTH & WELLBEING

*Hands-on development of valuable solutions
for sports, healthy lifestyle, wayfinding and
more*

- Usono - Wearable ultrasound
- NaviSense – Indoor Navigation
- MoLab Glycogen sensor
- Blood Glucose: Sensing For Preventive Healthcare
- Or new own initiated project

Coordinator:
Victor Donker MSc, PDEng
Industrial Design



Track info
meeting:

Wednesday 20 March
12.30 – 13.30
Atlas 3.320



TU/e Honors Academy – High Tech Systems Track

Towards a Sustainable Future Using High Tech Systems

AI, Robotics and Health Care



Data Analytics and AI



Engineering Skills

- Robot Platforms
- Machine Learning tools
- Sensor Technologies
- Systems Design
- Programming
- Experiments



Own your project!

Academic Program:

- Year 1: Mini projects
- Year 2: Make your own project

Academic Coordinator:

- Dr. Amritam Das (EE-CS)

Information Session:

- Time: 21 March 2024, 12:30pm-13:30pm
- Location: Auditorium 9

Professional Skills

- Analytical Thinking
- Creativity
- Innovation
- Teamwork
- Entrepreneurship



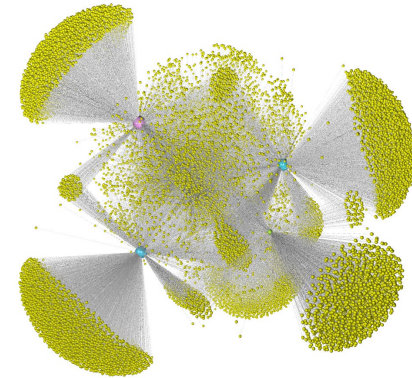
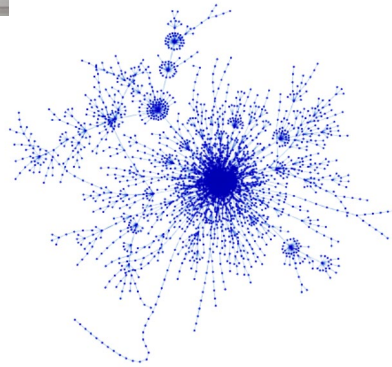
Student team 2020



Networked Society

Summary

- 🌐 Work in a multi-disciplinary team of students
- 🌐 Learn to do research
- 🌐 Develop and execute research on networks



Info session

Date: **Friday March 22th**

Time: **12:45-13:15**

Location: **Ceres 0.31**

Registration: send email to w.l.f.v.d.hoorn@tue.nl

The track	Nuclear Fusion Power for the Netherlands.
The challenge	Make the NL a frontrunner in fusion energy.
Why now	Dozens of start-ups around the world are about to commercialize fusion power (billions of \$ invested!). Europe takes on the competition with China, US, and UK
Why us (you)	TU/e is NL centre of expertise, world-leading MSc programme
What	A concrete plan: develop roadmaps for business case; supply chain; public acceptance; environment; end-users; network; politics; legislation; site selection; public information
Who	Interdisciplinary student team: 12 first year students already at full steam. Now bring the team to full strength (~24) with second cohort.
When	Info session: Wednesday 20 March, 12:45 – 13:30, Matrix 1.340

RADIO ASTRONOMY

Track Information Session

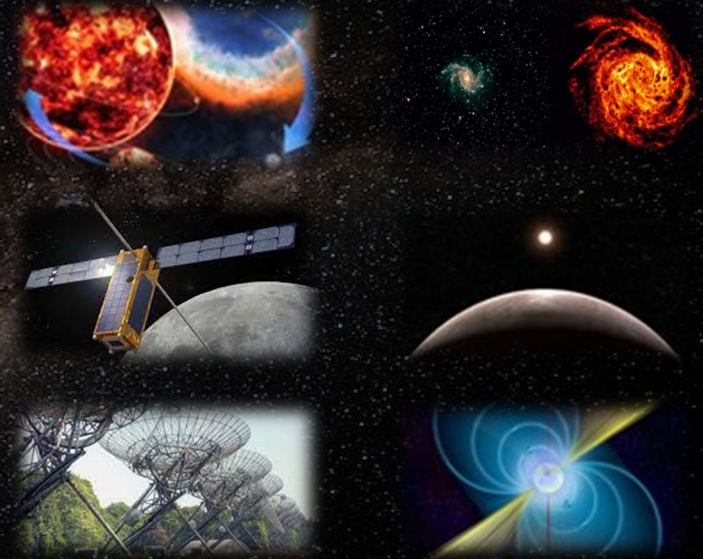
Coordinator:
Mark Bentum
Email:
m.j.bentum@tue.nl



Radio astronomy is the study of celestial objects that give off radio waves.

What we will do in this track:

- Lectures given by experts/yourself
- Challenges, like :
 - Navigation using pulsars
 - Making a radio telescope
 - AI system for searching for features in radio astronomy data



**Organize a student competition with
worldwide impact!**



SensUs

Let's compete for quality of life!

Lunch lecture
21st and 25th
of March
12:40-13:20

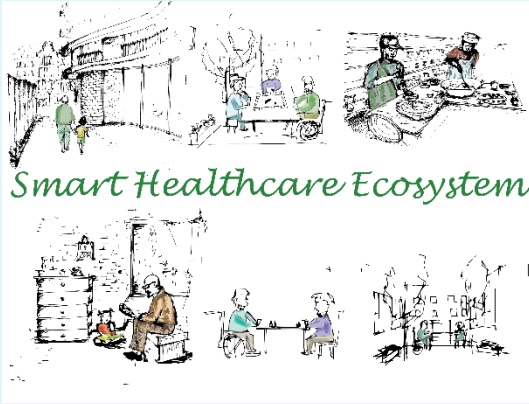
19 universities
14 countries

9 years
9 themes

Dare to develop yourself!

Honors Track Smart Cities - examples

Nature-inclusive urban furniture



Information pavilion to demonstrate highway innovations (RWS)



Information session Honors Bachelor Program

Information
session:
March 26th,
12:45 - 13:15
Auditorium 10

Smart Mobility Track

j.h.v.d.ouden@tue.nl

- Focus on applying AI for connected & automated vehicles, mobility as a service, efficiency, pedestrian flows etc.
- Multi-disciplinary team: engineering, design, business
- Collaborate with external partners within larger EU projects; network building
- From design, development to technical & user testing



Track info session:

- 20 March, 12:30-13:30h (incl. lunch!)
- Location: Matrix 1.345

Honors Study Association Confluente

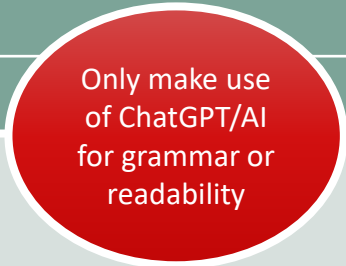


Questions?
Contact us!

hsaconfluente.nl

info@hsaconfluente.nl





Application procedure	When
<p><u>Upload</u> your application letter including short CV</p> <p>Some tips:</p> <p>Choose wisely apply only to one track</p> <p>Make it personal address to your track coordinator and compose a letter that is truly representative of yourself and your motivations for applying to your chosen track, and that reflects your unique experiences, aspirations, and personal journey</p>	<p>May 12, 23:59 hrs</p>
<p>Honors Prospective Student Event (registration needed)</p>	<p>April 23 19:00 – 21:00 hrs</p>
<p>Check Your Match event</p>	<p>May 16 12:30 – 13:30 hrs</p>
<p>Application interviews</p>	<p>May 27 – 31</p>
<p>You will be informed about the decision about your application</p>	<p>June 14</p>
<p>Start program / introduction weekend H.S.A. Confluente</p>	<p>September (mid)</p>
<p>Honors office checks credits after you have finished all courses of the 1st bachelor year and the results are available</p>	<p>July - August - September</p>
<p>If you have finished all courses (60 credits), you will receive the Final admission letter</p>	<p>October 1</p>

Where can I find more information?

Watch our animation

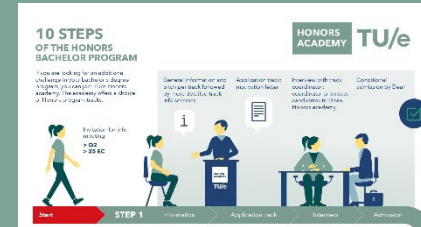
https://www.youtube.com/watch?v=xeRKRp_baxs

And also check the online study guide for more information about the program and the tracks and the booklet.

[Educationguide.tue.nl/honors-academy](https://educationguide.tue.nl/honors-academy)

Or contact us

honorsacademy@tue.nl





Time for questions!

- ❖ Or visit the Honors Prospective Student Event organized by Confluence on April 23
- ❖ Or visit the Check Your Match event on May 16
- ❖ Or send us an email: honorsacademy@tue.nl

Follow us in social media



tue_honorsacademy



TU/e Honors Academy

TRACK INFORMATION SESSIONS	DATE/TIME	LOCATION	
Artificial Intelligence	March 26, 13:45-14:45h	MetaForum 13	
Competitive programming and problem solving	March 21, 13:30-17:00h	Atlas -1.825	General info 13:30-14:00h, afterwards starts a programming contest (sign up via k.a.b.verbeek@tue.nl)
Empowerment for Health & Wellbeing	March 20, 12:30-13:30h	Atlas 3.320	
Energy Transition	March 19, 12:30-13:30h	Atlas -1.715	
High Tech Systems	March 21, 12:30-13:30h	Auditorium 9	
Networked Society	March 22, 12:45-13:15h	Ceres 0.31	
Nuclear Fusion Power in the Netherlands	March 20, 12:45-13:30h	Matrix 1.340	
Radio Astronomy	March 27, 10:00-11:00h	Atlas -1.822	
SensUs Organization	March 21, 12:40-13:20h March 25, 12:40-13:20h	To be announced Check studyguide	
Smart Cities	March 26, 12:45-13:15h	Auditorium 10	
Smart Mobility	March 20, 12:30-13:30h	Matrix 1.345	

Questions about our program? Contact us via honorsacademy@tue.nl