



# pulsed<sup>®</sup>



## General facts and figures Fontys University of Applied Sciences

“The strength of our size”

Over 46,000 students and 5,000 staff. Locations in 10 cities in two different provinces. 89 bachelor's programmes of which 23 English taught, full-time, part-time and dual, in almost every conceivable 'discipline' on the labour market. And: 28 master's programmes, 15 associate degrees, and a large range of courses and study programmes for the business market. No fewer than 41 lectorates engaged in research and knowledge innovation. Fontys is a large, substantively broad, and geographically dispersed university of applied sciences. It is this richness that offers great opportunities – opportunities for a flexible educational programme for the individual student, and opportunities for multidisciplinary research.

“The intimacy of our approach”

Fontys is also characterised by an informal culture and a personal approach. We focus on the individual. First and foremost, this means we focus attention on our students, but it also implies our care for Fontys employees, alumni, potential students, and the close and often personal contact with our partners in the professional field. The latter is precisely a consequence of our locations: the Fontys institutes are firmly rooted in the region.

**Fontys Pulsed Academy is a very innovative Academy within Fontys University of Applied Sciences.**



**FONTYS PULSED**  
**(ACADEMY OF FONTYS**  
**UAS) SHOWS**  
**THE FUTURE OF**  
**HIGHER EDUCATION**

Pulsed Academy  
Fontys University of Applied Sciences  
Eindhoven, the Netherlands

International strategy

## What are we working towards?

- + Integrated Blended Intensive Programs as part of our curriculum**
- + Working together with other experts on increasing our collaborative expertise in Interdisciplinary, Design Based and Challenge Based Learning**
- + Sharing our innovative educational approach within Europe – Challenge Weeks, COILs, eventually a strategic network of 30 ects Challenge Based Programs like Embrace TEC.**

# embrace technology+ entrepreneurship +creativity

- + introduction
- + what you can expect
- + what you can learn
- + program details
- + how to apply





## need-to-knows

- + **brainport region: Eindhoven**
- + **minor program of 20 weeks**
- + **runs two times per year**
- + **zero exams or grades**
- + **hands on**
- + **take out what you put into it**





➔ an international Exchange program that blends cultures, disciplines and experiences





→ uncover your own uniqueness and personal talents





➔ learn to go from idea to product by using design-based working







➔ get 1:1 personal coaching to kickstart your future (career)





## ➔ pulsed for good

Challenges that focus on solutions to current dilemmas in society. Experience worlds often hidden away. Work with 'real' people and shape your personal identity and future professional choices.







## ➔ 1 minor 2 tracks

Work alongside the challenges on your own track. Based on newly gained awareness and your own fascinations plus frustrations, you choose one of the 2 unique tracks to realise your personal project.



entrepreneur  
& business



personal  
purpose

# Master Digital Technology Engineering

Pulsed Academy  
Fontys University of Applied Sciences  
Eindhoven, the Netherlands

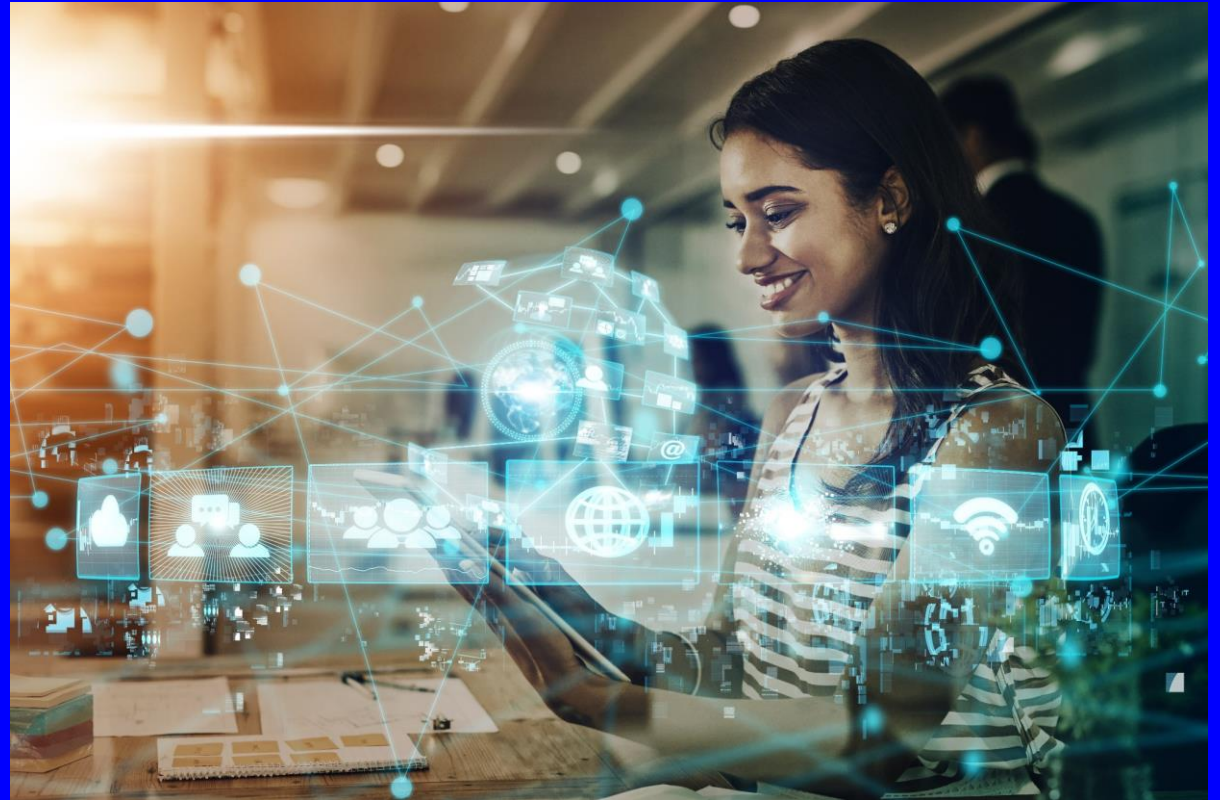


# Basic data MDTE

- Master Digital Technology Engineering
- No pre-master required
- 120 EC
- Full time, start Sept 2023
- English
- MSc
- Publicly funded (120 EC)
- Influx: Bachelor Engineering + Bachelor ICT + Applied Physics



**What is needed to  
enable digital  
transformation in  
a highly complex  
context?**



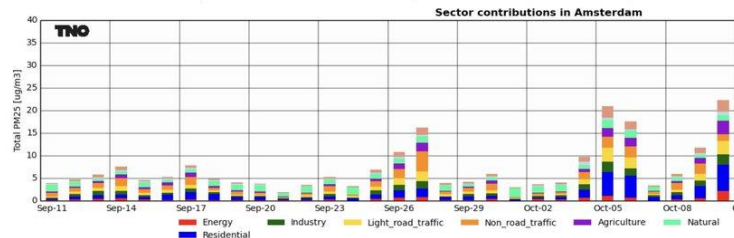
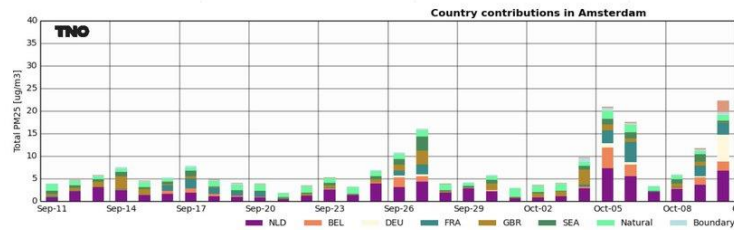
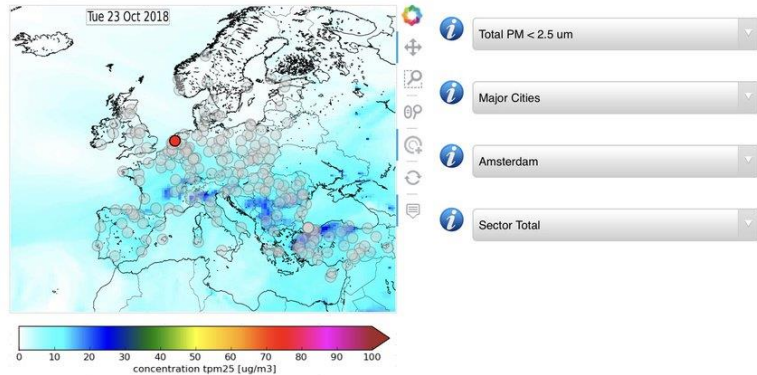


# Developing new applications

How can we use digital and physical tools to improve student's productivity?



# Meaningfulness of data





# Relevant companies

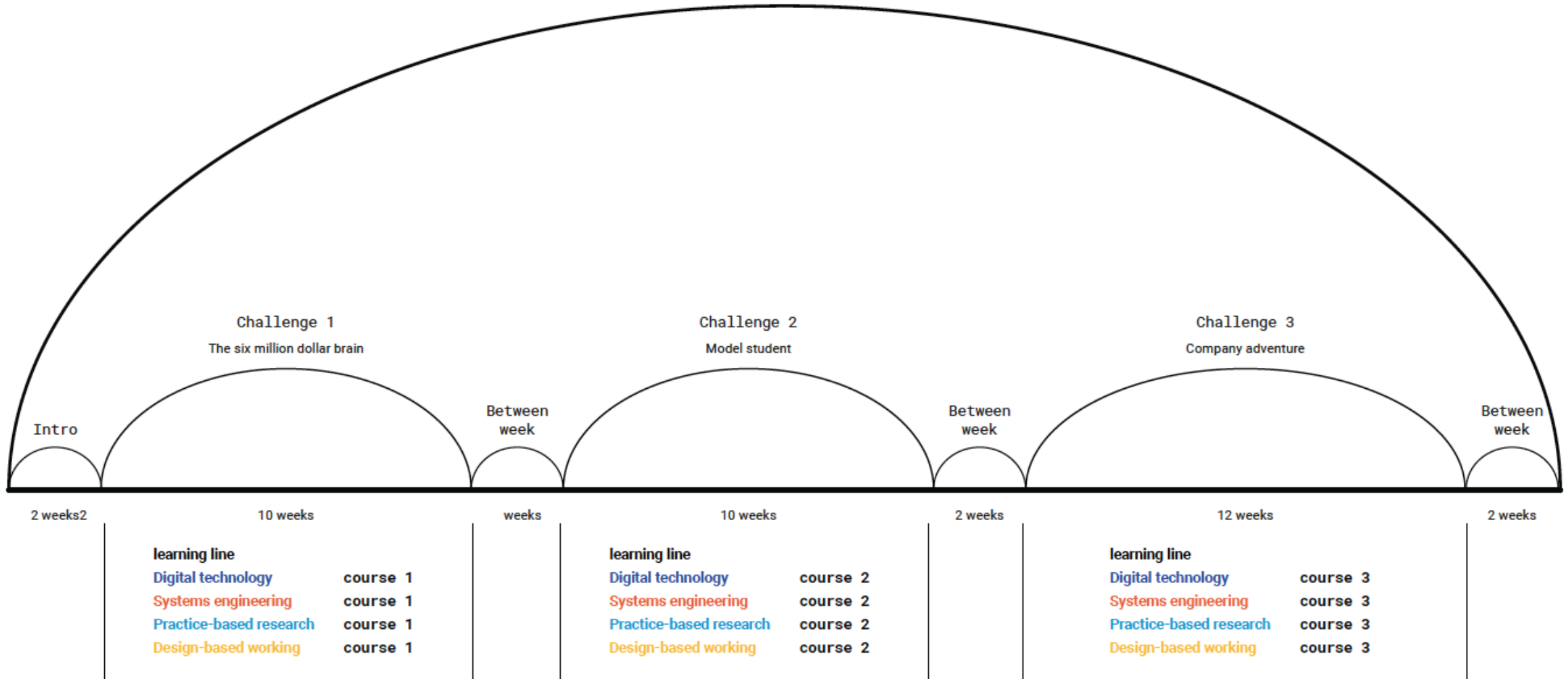
- Technological, focus application digital technologies > i.e. Philips, ASML, TNO;
- Technological supplier, focus on (non-) technological companies > i.e. TMC, Sioux, MTA, VDL;
- Non-technological, increasingly dependent on technology > i.e. CSU, Eindhoven municipality.



# Master Digital Technology Engineering

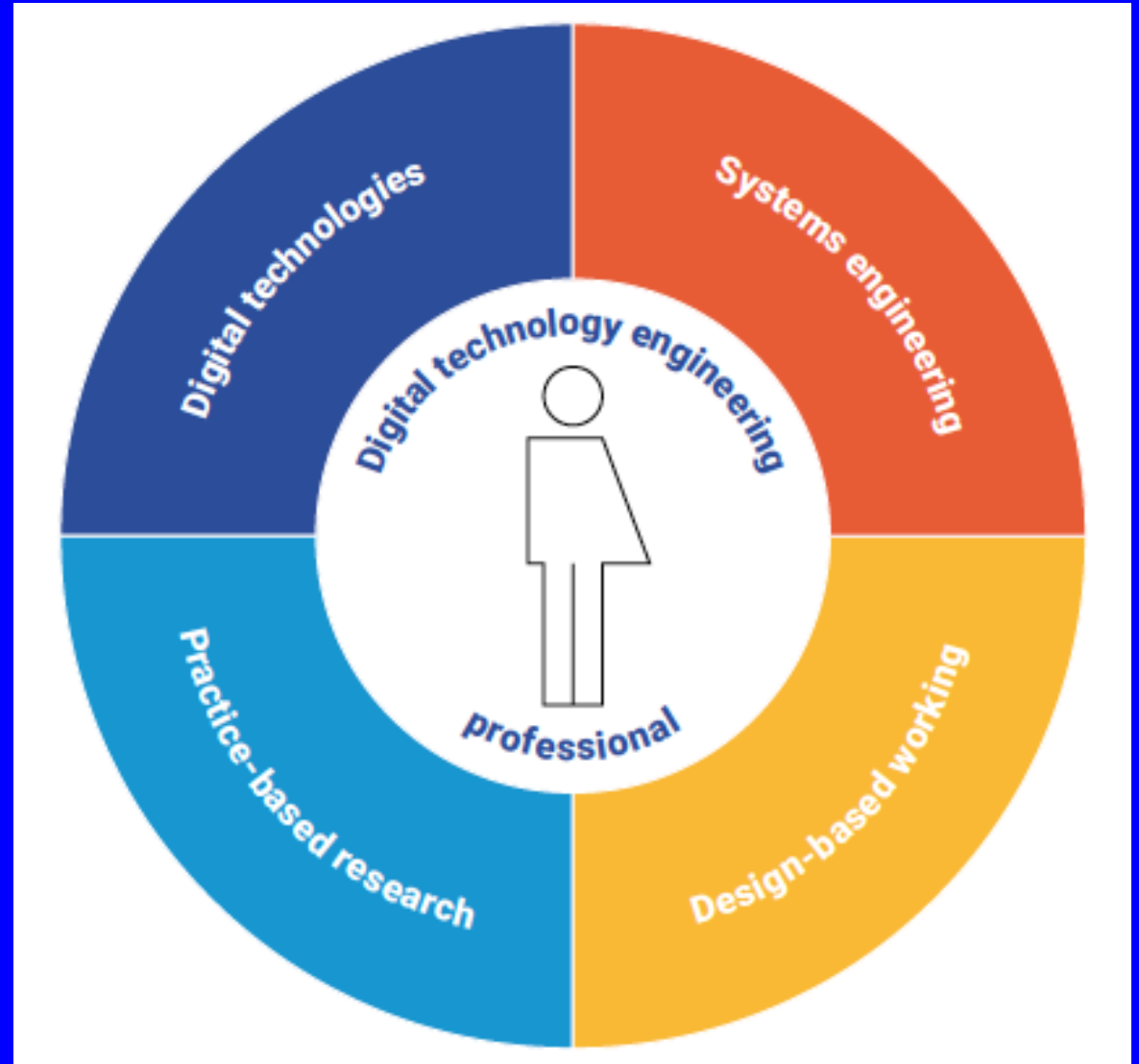
A Digital Technology Engineer: results-oriented engineering professional who applies an integrated solutions and systems approach, while leveraging existing digital technologies to deal with a high degree of uncertainty, complexity and interdependence that the application and integration of digital technology requires.

## Learning outcomes – year 1





# Learning Lines



Connect with us either via our website: [Fontys Pulsed | Our programs](#)

dr. ir. Jeroen Keijzers - [j.keijzers@fontys.nl](mailto:j.keijzers@fontys.nl) (Master DTE)

drs. Milou Kauffman – [m.Kauffman@fontys.nl](mailto:m.Kauffman@fontys.nl) (Internationalisation)

Fee information: [Finance \(fontys.edu\)](#)

