COACHING

Intensive coaching
You're not on your own while you're studying. At TU/e, experienced coaches help you right through your program with personal advice. That starts from day one, when together with your coach you decide on the right courses to choose in the elective part of your program. That means you define your own study program, to match your own interests and ambitions.
As well as a personal coach, you'll receive support from your student counselor and students in later years – they act as mentors to your first-year group, and will help you to make a good start on your studies.

No rights may be derived from this publication.

WANT TO KNOW MORE ABOUT PSYCHOLOGY & TECHNOLOGY?

Study information Psychology & Technology
e-mail: PT.Studyinformation@tue.nl
website: tue.nl/bachelorprograms/pt

Information days
tue.nl/informationdays

Stay informed about studying at TU/e:
start.tue.nl

First-year courses in the Psychology & Technology core

TU/e
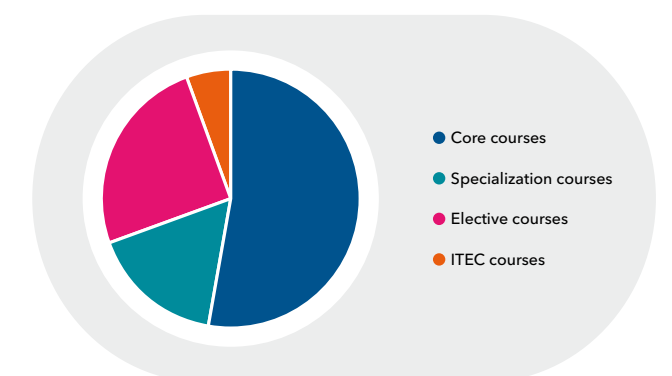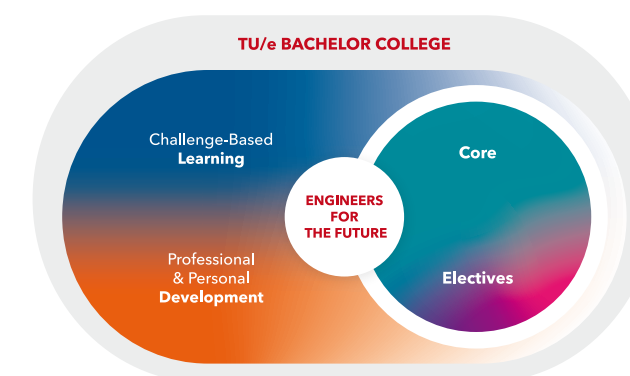### EINDHOVEN UNIVERSITY OF TECHNOLOGY

tue.nl/bachelorprograms/pt

TU/e BACHELOR COLLEGE

Eindhoven University of Technology (TU/e) combines its bachelor education in the Bachelor College. As a student of the TU/e Bachelor College, you have the freedom to define your study program based on your own interests and ambitions. A large part of your Bachelor's program is made up of your core program, in which you choose the specialized field that you want to work in later as an engineer. This forms the basis of your study program.

Core courses Psychology & Technology
In the Psychology & Technology core, you'll combine courses in psychology and technology subjects.
The technology courses are in ICT, Living or Robotics. On average you'll spend a third of your time on technology subjects, a third on psychology subjects and a third on research methods and practical assignments. The language of communication of this Bachelor is English. Your core program includes 16 basic courses. You'll gain professional skills like presenting, academic writing, teamworking and organization.

TU/e BACHELOR COLLEGE

Challenge-Based Learning

ENGINEERS FOR THE FUTURE

Core

Professional & Personal Development

Electives

- Core courses
- Specialization courses
- Elective courses
- ITEC courses

Specialization courses

During your first quartile you select a specialization (track). Each specialization includes six technical courses to build your expertise. In "Living," you learn how to blend psychology and technology for healthier environments. "Robotics" delves into sensors and AI operation, emphasizing human collaboration. "ICT" focuses on enhancing ICT system usage. Explore the tracks on our website for details.

Elective courses

Each Bachelor's program includes electives to match the program to your interests. These allow you to change the emphasis in your program. You can gain more in-depth knowledge in your own specialization or broaden your knowledge by following courses in a different specialization to develop your overall competence in Psychology & Technology. In addition to the electives offered by the department, electives may also be taken at other TU/e departments. You will select the electives that best match your learning goals.

Challenge based learning and ITEC (Impact of Technology)

In your bachelor program 33% of the courses will have a challenged based format, i.e. working with real-life cases, developing solutions for clients and working on interdisciplinary challenges. Furthermore, bachelor wide courses on Impact of Technology show you that technology always functions in a broader context. Eindhoven engineers develop technology for users, to contribute to solving relevant societal problems and create economic feasible opportunities.

The Bachelor's program Psychology & Technology has the following structure:

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Year 1				
	Calculus	Social & Environmental Psychology	Behavioral Research Methods I: Designing	Brain, Body, Behavior
	Introduction Psychology & Technology	Technical Course	Applied Data Skills	OGO Qualitative Research
	Programming for Psychology and Technology	Technical Course	Technical Course	ITEC Engineering Ethics
Year 2				
	Behavioral Research Methods II: Dealing with Data	Thinking and Deciding	Sociology & Social Network Analysis	Perception & Motor Control
	Technical Course	Technical Course	Technical Course	Advanced Research Methods and Research Ethics
	Elective	Elective	Elective	Multi CBL
Year 3				
	OGO Quantitative Research	Human Factors	Bachelor Final Project	Bachelor Final Project
	Human-Centered AI	Elective	ITEC Engineering for Society	Elective
	Elective	Elective	Elective	Elective

FIRST-YEAR COURSES IN THE BACHELOR PSYCHOLOGY & TECHNOLOGY

In your first year you'll follow technology courses as well as psychology subjects. These are the first year courses in the Psychology & Technology core:

Introduction to Psychology & Technology

This course is about human-technology interaction, a subject that is of great importance for successful innovation. The course covers the basic principles of psychology, such as awareness, perception, learning, thinking and emotion, and their application in human-technology interaction.

Programming for Psychology & Technology

This course covers the basic principles of object-oriented programming, starting with the theory behind the Java programming language. This theory is then put into practice in writing a number of short programs.

Social & Environmental Psychology

Social Psychology is about the thoughts, emotions and behavior of individuals and how these are influenced by the actual, imagined or suggested presence of others. Environmental Psychology explores people's relationship with the external world. It studies how humans and their environments influence each other. These two topics are highly related to one another, as we cannot detach the human from their environment. In this course, we elaborate on various aspects of daily life and present them through both a social and an environmental lens.

Research Methods

In this course, you learn about scientific research and the method used in empirical research. You will learn how to formulate a research question, which research designs are suitable to study the question, and how you could implement the research design. The course is very practice-oriented. You will conduct a study with a project group, from formulating a research question to writing a research report.

Applied Data Skills

This course provides an overview of skills needed for reproducible research and open science. The course provides an overview of the basic skills required to turn raw data into informative summaries and visualizations presented in professional reports and presentations. The book will introduce learners to R, a programming language that can help automate working with data.

Qualitative Research methods

Qualitative research seeks to examine phenomena not by quantifying their outcomes but by observing and describing them. In this course, you will learn about the most used qualitative methods (for example, ethnographic observations and focus groups) and perform research by collecting qualitative data in naturalistic environments and interpreting them through qualitative analysis methods.

Brain Body Behaviour

The brain is the most important, complex, and mysterious biological structure known to man. The brain underpins all our behaviour and experience, whether it is talking, sleeping, seeing, learning, having sex, taking drugs, or listening to music. To uncover the secrets of the brain means to gain a deeper understanding of what it means to be human. In this introductory course, students will become familiar with basic brain function, and its relation to human behaviour and human bodily processes.

tue.nl/bachelorprograms/pt