

# First-year courses in the Industrial Design core

**TU/e**  
EINDHOVEN  
UNIVERSITY OF  
TECHNOLOGY

## 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.

## INDUSTRIAL DESIGN BACHELOR'S PROGRAM

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Year 1	<b>Courses</b> - a total of 20 ECTS ● User-centred Design ● Calculus	● Data Analytics ● Physics	<b>Courses</b> - a total of 15 ECTS ● Creative Programming	● Making Sense of Sensors ● ITec Ethics
	<b>CBL Project 1</b> - 10 ECTS		<b>CBL Project 2</b> - 10 ECTS	
<b>Professional Identity and Vision Learning Line</b> - 5 ECTS				
Year 2	<b>Courses</b> - a total of 20 ECTS ● Aesthetics of Interaction ● Elective	● Design <> research ● Elective	<b>Courses</b> - a total of 20 ECTS ● Design Innovation Methods ● Sustainability ● Elective	● Elective
	<b>CBL Project 3</b> - 10 ECTS		<b>CBL Interdepartmental</b> - 5 ECTS	
<b>Professional Identity and Vision Learning Line</b> - 5 ECTS				
Year 3	<b>External learning activities</b> - 25 ECTS		<b>Courses</b> - a total of 10 ECTS ● ITec Ethics ● Elective	
	<b>Professional Identity and Vision Learning Line</b> - 5 ECTS		<b>CBL Final Bachelor Project</b> - 20 ECTS	

● Core Design Course ● Core Engineering Courses and ITec ● Professional Identity and Vision Learning Line ● Project ● Elective

# CURRICULUM INDUSTRIAL DESIGN

## Curriculum

The Industrial Design bachelor program is a three-year program of 180 ECTS. This document shows the curriculum of the bachelor program. The program is composed of Core Design courses, Core Engineering Courses, Electives, the learning line Professional Identity and Vision, Projects and ITech.

## Core Design Courses

The core design courses of the Bachelor program form the basis of the Eindhoven Industrial Design Engineer. Within the core courses, students develop a knowledge and skill base specific to Industrial Design, which they can use and further develop in projects. Core courses are representative for the Expertise Areas, each with their own perspective on the Design & Research Process.

## Core Engineering Courses

As part of the Bachelor College, all bachelor students of Eindhoven University of Technology must complete five generic engineering courses, also referred to as Core Engineering Courses, and develop their professional skills. The generic engineering courses and professional skills provide the foundation for the Eindhoven Engineer, and support the acquisition of transversal knowledge, which is needed to take electives and coherent elective packages outside the core.

## Electives

At the department of Industrial Design, electives form the connection between the knowledge and skill base developed in the core and generic engineering courses and practice, projects and professional domain. They offer a controlled context to develop your overall competence of design. 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.

## Professional Identity and Vision

At Industrial Design we want you to develop the necessary professional skills you will need to take charge

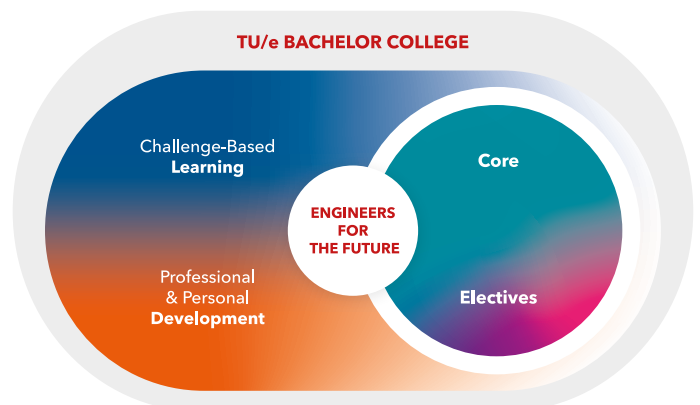
of your career. You will learn these skills during the Professional Identity and Vision course. You will further develop and integrate these skills during the different projects you will take part in during your Bachelor program.

## Projects

Projects form the backbone of the Industrial Design program. Through projects, you integrate (select, use and sometimes acquire) the knowledge and skills from different areas of expertise, you learn design and research processes, and you develop your professional skills. Projects are open challenges and support the development of the overall competence of design in an authentic professional context, as they involve a variety of stakeholders. Furthermore, projects offer a platform to explore interests, and to develop a vision and professional identity.

## Impact of Technology (ITec)

During your core program you will also learn what impact technology can have on society. Within each bachelor's degree program, you will follow two Impact of Technology (ITec) courses for this purpose. You can also choose additional ITec courses in your elective space.



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## WANT TO KNOW MORE ABOUT INDUSTRIAL DESIGN?

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