



4TU.Centre for Engineering Education

Innovating Engineering Education for Tomorrow's Engineer

About 4TU.CEE Are you involved in engineering education and looking for tools, best practices and research that will help you educate 'futureproof' engineers? Are you interested in innovative, interdisciplinary engineering education and modern learning environments? Would you like to contribute and share your expertise in this field?

The 4TU.Centre for Engineering Education (4TU.CEE) is the centre of expertise for teachers and scientists with questions and ambitions in the domain of Engineering Education at the four universities of technology in the Netherlands.

TU Delft Delft University of Technology

TU/e Eindhoven University of Technology

UNIVERSITY OF TWENTE.

WAGENINGEN University & Research

4TU.

**4TU. CENTRE FOR
ENGINEERING EDUCATION**



Activities

4TU.CEE:

- ≡ establishes networks connecting teachers, scientists, support staff and international colleagues involved in educational innovations;
- ≡ contributes to new ideas, constructs new frameworks and experiments with new approaches;
- ≡ provides input for university visions and helps implement these;
- ≡ maps, surveys and communicates recent innovations, trends, tools, research evidence and advancements at the four universities;
- ≡ engages in research and professional development activities on a variety of topics to foster the innovation of engineering education, typically via projects, short-term practice-oriented projects, exploratory studies to identify promising practices, as well as more fundamental PhD studies;
- ≡ organises workshops, conferences and other events to enable education staff to learn about innovations, exchange ideas and actively participate.

For these activities, the 4TU.CEE website, and in particular the networks of 4TU.CEE staff at the universities, provide a platform for staff to share expertise. An important source of information for teaching staff is our Innovation Map. It provides access to tools, research results and promising practices and can be accessed through the 4TU.CEE website.

Topics of Interest

4TU.CEE focuses on five topics that fall under two overarching themes, namely **Engineer of the Future** and **Future Engineering Education**.

These five topics are:

- **Educating for responsible engineering/the ethical and responsible engineer;**
- **Entrepreneurial learning/academic entrepreneurship;**
- **Challenge-Based Learning: New forms of challenge-based learning (CBL) or challenge-based education;**
- **Teaching excellence in engineering education: Diversification of career pathways strategy (VSNU, KNAW, NWO, 4TU);**
- **ICT enhanced education and the digitally literate engineer. This topic consists of two subtopics:**
 - (a) **ICT enhanced engineering education**
 - (b) **Digitally literate engineers.**

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