



# Teknosofikum

## Experts for developing Teknosofikum

**This is an invitation to become a part of the Teknosofikum project.**

We are seeking experts who will help us develop a ground-breaking research-based online concept and course on technology education for Higher Education (HE) teachers in Denmark.

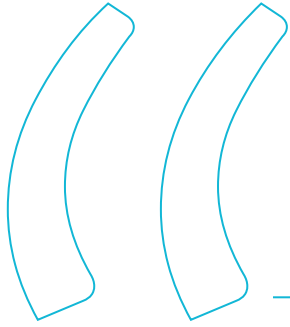
Across the educational system, technology education (i.e. technology comprehension, computational empowerment, informatics) is becoming increasingly acknowledged as central for all students. This calls for skilled teachers that are prepared to engage in these matters in their teaching activities also in HE.

[Teknosofikum](#) is an interdisciplinary project lead by ITU in partnership with [Royal Danish Academy – Architecture, Design, Conservation, Design School Kolding](#), and [University of Copenhagen, Faculty of Law](#). In collaboration among the four partner institutions, the project will create a first step in formulating technology education as an aspect of academic bildung in HE in Denmark.

Through knowledge, practices, scenarios and cases from the disciplines of design, IT and law, Teknosofikum is aiming to foster greater understanding of the transformations that digitalization entails for society and for the field of work for which HE teachers themselves educate students.

Furthermore, Teknosofikum aspires to foster HE teachers' knowledge of and ability to handle various relevant forms of knowledge, organization, techniques and digital tools, and can bring them into play in relevant ways in their teaching activities, with a focus on [scaffolding HE students' technology education](#) in relation to the subject they are teaching.

Teknosofikum (2020-2023) is a design-based research and development project funded by the [Danish Ministry of Higher Education and Science \(UFM\)](#). Teknosofikum is a part of the [national action plan in HE "Digital Competences and Digital Learning"](#) (UFM, 2019), and related to the new (UFM, 2019) job structure for academic staff in universities emphasizing research based teaching and knowledge dissemination and continuous development of pedagogical-didactic competencies to ensure qualified teaching.



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*...understanding, using and dealing with digital technologies is no longer just a task for IT specialists.... everyone must be able to decode and understand digital technologies and be critical of them and the new personal and ethical considerations that technologies bring with them in each subject, whether in the profession of nursing, law or design.”*

Ministry of Higher Education and Science, 2019, p. 5

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## 2 experts in hybrid teaching & 2 experts in computational empowerment/digital citizenship

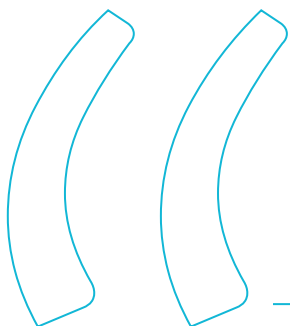
We are seeking expert faculty that will find it interesting to take part in co-creating the future of HE technology education as an integrated aspect of future academic bildung, and hereby increase the quality of teaching at ITU - and more broadly in HE in Denmark. Right now, we need **two experts** to take part in developing the Teknosofikum module focusing on “Hybrid teaching and learning environments” and **two experts** for our modules on “computational empowerment”, “digital citizenship”, “technological imagination” and “Computational trends, digital design and the shape of knowledge”.

We need ITU faculty that are experienced experts, interested and skilled in teaching and practicing these subjects. Since Teknosofikum is for all HE teachers in Denmark, it will be considered a strength if the teachers have experience with disseminating to and teaching other (future) professionals than IT-professionals.

In the project we will create and anchor an interdisciplinary perspective-rich research environment around the developments, where we invite to online seminars, bringing together leading experts focusing on the professional content that is the focus of the Teknosofikum concept and modules.

During November-December 2020, we develop the first two online modules (we develop in English). The modules will target HE teachers at the four partner institutions and the modules shall be relevant to and contribute to qualifying their teaching practices.

Each expert faculty receives DKK 441,- pr. hour (as an external lecturer) in fee for his/her participation in each project phase (three project phases, each with an expected workload of 20 hours).



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*...technological imagination... [is] a character of mind and creative practice of those who use, analyse, design and develop technologies.... This is the quality of mind that enables people to think with technology, to transform what is known into what is possible, and to evaluate the consequences of such creation from multiple perspectives”*

Balsamo, 2005

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# Teknosofikum full course path

## Step 1

**Technology Education for HE Teachers**  
(Entrance to Teknosofikum)

## Step 2

**Module 1 & 2**  
(mandatory)

## Step 3

Institutions choose two of modules among 3-6

## Step 4

Individual choice of one remaining module among 3-6

## Modules

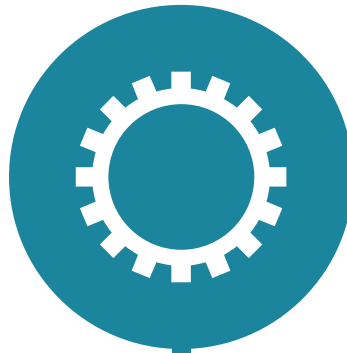


# Project timeline

## Phase 1 (pilot)

**15. April 2020-February 2022**

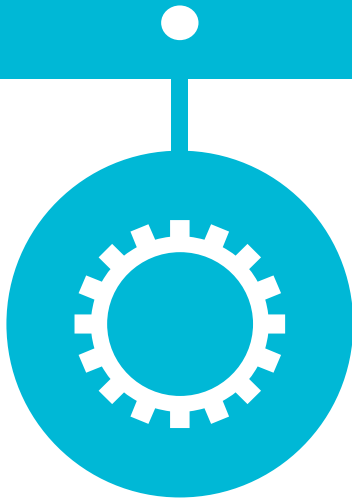
First version of pure self-study e-learning modules and full facilitated Teknosofikum course is developed (six modules), tested and evaluated with 45 HE teachers from the partner institutions.



## Phase 3 (dissemination)

**September 2022-April 2023**

A distribution model is developed and tested, evaluated and validated, with full course + pure self-study for 330 HE teachers from the partner institutions and 190 from other HE in Denmark.



## Phase 2 (scaling)

**March 2022-August 2022**

Second version of pure self-study e-learning and full facilitated Teknosofikum course is completed, tested and evaluated with 125 HE teachers from the partner institutions.



## Partners



## Contact info

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