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## Pedagogical competence development 2021

### **One day events:**

- Workshop on digital learning objective (January 2021)
- Symposium on disruptive learning pathways (February 2021)
- Webinar: Thinking about Higher Education with Hannah Arendt (February 2021)
- Spring School on Engineering Ethics Education (March 2021)
- Co-organizer of workshop at AAU's day of learning: Tips and tricks to set up an E-course (May 2021)
- PhD defense: Imad Abou-Hyat (June 2021)
- Ethics SIG seminar: Participatory tech assessment in engineering education (November 2021)
- Workshop on integrating TECH in Techno-Anthropology's curriculum (November 2021)
- Co-organizer of Integrating SSH and STEM in AAU's study program (November 2021)
- Alternative internationalizations? Developing International HE for the 2020s (December 2021)

### **Conferences:**

- SEFI conference (September 2021)

### **Development work:**

- Chair of working group tasked to integrate digital learning objectives into the T-A curriculum (January to July 2021)

### **Network:**

- Member of Dansk Universitetspædagogiske Netværk (DUN) 's SIG on Higher Education Policy and Practice (since 2019)
- Member of European Society for Engineering Education (SEFI)'s SIG on Engineering Ethics Education (since 2018)
- Member of International Association for Education in Ethics (IAEE) (Since 2010)

### **Projects:**

- Editor in Chief of the Handbook of Engineering Ethics Education (SEFI project – on going)
- PI on the development of the online course: Enacting RRI! (COST Action EuroScitizen – on going)
- PI on the development of the online course: Introduction to Techno-Anthropology (Technical Faculty of IT and Design)

### **Papers on higher education topics:**

- Teo, E. A., Børsen, T., Triantafyllou, E., Cardeno, J. I. C., & Karadechev, P. (2021). Designing open innovation problem-based projects: social relevance, student expectations and preliminary observations. I H-U. Heiß, H-M. Järvinen, A. Mayer, & A. Schulz (red.), Blended Learning in Engineering Education: Challenging, enlightening and - lasting?: Proceedings of SEFI 49th Annual

Conference (s. 1303-1312). SEFI: European Association for Engineering Education.  
<https://www.sefi.be/wp-content/uploads/2021/12/SEFI49th-Proceedings-final.pdf>

- Børsen, T. (2021). Developing teaching materials in ethics for chemistry and chemistry engineering students. I F. Zölzer, & G. Meskens (red.), *Research Ethics for Environmental Health* (1 udg.). Routledge. <https://www.taylorfrancis.com/chapters/edit/10.4324/9780429318436-9/developing-teaching-materials-ethics-chemistry-chemical-engineering-students-tom-børsen>
- Børsen, T., & Cardeno, J. I. C. (2021). E-learning as means to facilitate successful transition from an engineering bachelor to a technical Master's program with anthropological and ethical content. I H-U. Heiß, H-M. Järvinen, A. Mayer, A. Schulz, A. Wipper, & U. Schumann (red.), *Blended Learning in Engineering Education: Challenging, enlightening and -lasting?: Proceedings of SEFI 49th Annual Conference* (s. 695-706). SEFI: European Association for Engineering Education.
- Børsen, T. H., Serreau, Y., Reifshneider, K., Baier, A., Pinkelman, R., Smetanina, T., & Zandvoort, H. (2021). Initiatives, experiences and best practices for teaching social and ecological responsibility in ethics education for science and engineering students. *European Journal of Engineering Education*, 46(2), 186-209. <https://doi.org/10.1080/03043797.2019.1701632>
- Karadechev, P., Petersen, L. S., & Børsen, T. (2021). *Interdisciplinary competencies in the study program of Techno-Anthropology*. Aalborg Universitetsforlag. Serie om lærings-, forandrings- og organisationsudviklingsprocesser Nr. 11