

Exploring the challenge of bringing sustainability into engineering

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ABSTRACT

Keywords – sustainability, curriculum, institutions, frames, episteme, engineering.

Introduction to the hands-on session

Sustainability is on the agenda in most engineering institutions and programs – it is so to say a contemporary, unavoidable issue. A study of implementation strategies and practices is the background for setting the stage for a contemporary discussion of the challenges that sustainability presents to the politics of engineering institutions, to the profession and to engineering education. The study is presented in a recent book on Engineering Professionalism from which the chapter is taken, and a seminar where contemporary experiences from a number of Danish engineering institutions were discussed.

The main challenges are identified, different approaches discussed and the need for an operational set of metrics as well as a rethinking of engineering is presented.

REFERENCES

Engineering professionalism – studies of engineering practice in work and education. Eds. Ulrik Jørgensen and Søsner Brodersen. Sense Publishers 2017.