

# Teaching Engineers Innovation Competencies

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## ABSTRACT

*Keywords* – innovation competencies, teaching formats, transformative learning

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In the engineering education we experience a growing focus on stimulating innovative and interdisciplinary competencies among our students (Liebenberg & Mathews, 2010) in order for our students to acquire the needed 21<sup>st</sup> century skills (King, 2007). But these skills entail a change of behavior exemplifying the need for transformative learning (Illeris, 2004).

Innovation competencies seen as “*the ability to create innovation by navigating together with others under complex situations.*” (Darsø, 2001) entails an awareness of both own competencies and knowledge as well as of the others. This workshop will include trying out some of the formats that we use in teaching to stimulate this awareness in engineering students.

These formats are both used in the study programme in Process and Innovation Engineering and acts as pilots towards a huge initiative at DTU starting in the Autumn of 2016. Here all bachelor of engineering students will on their 5<sup>th</sup> or 6<sup>th</sup> semester go through a 10 credit interdisciplinary innovation module.

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