

EPI aims at establishing and communicating a common framework within the PIEp program for higher education that promotes creativity, product innovation and entrepreneurship

PIEp EPI – Education for Product Innovation

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Project runs 081001-090930

Partners: LTH, KTH, LTU

Why

In EPI, a state-of-the-art and best practices study has been performed with the aim of finding and documenting groups and actors performing world class education in product innovation.

What

Higher engineering education often lacks good and relevant models for best practice and state of the art in terms of both teaching strategies and practices. EPI has investigated a number of world leaders in the fields of innovation, product innovation, innovative product development and engineering design. These world leaders provide material and insight that has been used to design a road map for the development of courses and programs in product innovation engineering.

How

EPI was based on a three-step process: a preliminary literature study together with interviews of a small number of educators from PIEp international nodes, a thorough research study and presentation and dissemination at a number of international conferences and workshops.

Who and Funding

The project team consists of two members from KTH (Martin and Anders), Andreas from LTU and Fredrik from LTH. In total, 7 months full time has been spent on the project.

Martin (3 months)

Andreas (1 month)

Fredrik (1 month)

Anders (1 month)

Deliverables

A number of conference publications based on research findings has already been published. Several of these publications are now in the process of being reworked into journal publications.

Direct deliverables

EPI aims at establishing and communicating a common framework within the PIEp program for higher education that promotes creativity, product innovation and entrepreneurship

1. Grimheden, M., Berglund, A., Larsson, A., Nilsson, F., Education for Product Innovation – final project report. PIEp. *To be finalized.*
2. Grimheden, M., The Product Innovation Engineering Program: Promoting Creativity, Synthesis and International Collaboration. Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, San Diego, USA. (2009).
3. Berglund, A., Understanding Innovativeness by Encapsulating Creativity in Higher Engineering Education, Proceedings of the International Conference on Engineering and Product Design Education 2009, Brighton, UK. (2009).
4. Berglund, A., Ritzén, S., Towards Individual Innovation Capability – The Assessment of Idea Generating Methods and Creativity in a Capstone Design Course, Proceedings of the International Conference on Engineering and Product Design Education 2009, Brighton, UK. (2009).
5. Grimheden, M., PIEp EDU: Education for Product Innovation. Proceedings of the International Conference on Engineering Design, ICED 09, Stanford, USA. (2009).
6. Grimheden, M., Education for Product Innovation - A 'Good Practices' Report. Proceedings of the 116th Annual ASEE Conference and Exposition, Austin, USA. (2009).

Related publications

1. Grimheden, M., Berglund, A., Creating a Better World by International Collaboration in Product Innovation Engineering - The PIEp Way. Proceedings of the International Conference on Engineering and Product Design Education 2009, Brighton, US. (2009).
2. Grimheden, M., The Product Innovation Engineering Program and International Collaboration. Proceedings of the 116th Annual ASEE Conference and Exposition, Austin, USA. (2009).

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