Institut für Mechatronik

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Abstract: Creative problem solving is an aspect rarely explicitly addressed in university education within the field of mechanical engineering in Germany. During their studies prospective engineers cover basic courses in mathematics, mechanics, electronics, machine-elements and many more but are left to find their own strategies to apply the acquired knowledge in the most fruitful way. At the institute of Product Development the focus of teaching lies on engineering-methodology. Since 2011 the lecture portfolio has been broadened to include a week-long practical course on Innovation Methodology, which is based on TRIZ principles and tools and open for 20 participants. This paper contains detailed description of the course set-up, including its schedule, applied methods and teaching elements. The learning success is evaluated and discussed. Students state very high overall learning success, strong enhancement of their personal Problem Solving Capability and high practical applicability of TRIZ in work and studies. Furthermore the complementary character of TRIZ in relation to traditional subjects is underlined.

Stichworte: TRIZ; creativity; problem solving capability; methodology application; didactic elements;
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· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung (Prof. Volk komm.) > Konferenzbeiträge
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