Abstract:

The optimal education of students has a special importance in our department. Industry expects students of mechanical engineering to bring along knowledge to their profession that exceeds mere technical aspects. There is a growing need for learning systematic proceeding and achieving both social competence and management abilities, which we would like to meet by offering a broad variety of subjects and courses as well as directly addressing these topics. Since we are part of the Institute of Mechatronics, there is a special emphasis on interdisciplinary collaboration, on the one hand to bring disciplines, which meet in modern products such as mechanics and electronics, together, on the other hand to associatively learn from other ones methods. The main focus of our department, design methodology and design processes, is especially the area that shall contain interdisciplinary education in order to become a steady part of the faculty. Since a main topic of our department is the integration of different aspects of products, processes, and organisations, we also like to integrate industry, research, and education on a cooperative level. Only a combination of these three aspects will guarantee an efficient and effective acting and developing on each side and it
early prepares students for their later profession. We would like to present our integrated view on education, its aims and main aspects including the core of our methodology as well as our offer both in general and especially concerning interdisciplinary work in project teams.

Stichworte: Lehre / Ausbildung; Methodenimplementierung; Werkzeuge / Hilfsmittel

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