
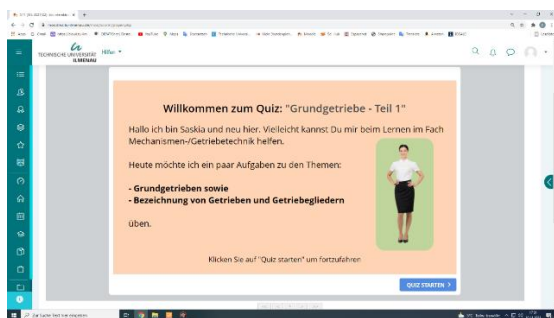


Digitally Supported Teaching/Learning Using iSpring in the World of Mechanism and Gear Technology

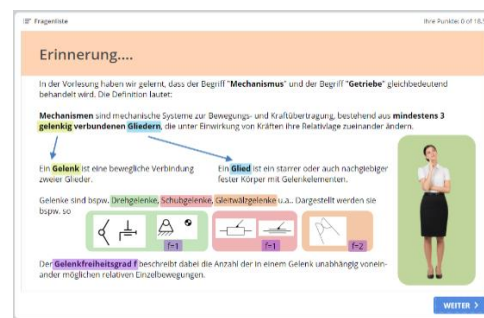
The Mechanics of Compliant Systems Group at Technische Universität Ilmenau offers the courses Gear Technology 1 and Mechanism Technology for various bachelor degree programs.

Digitally supported teaching/learning is ideally suited to supplement lectures and aid in exam preparation. The aim is to work through individual topics of both basic transmission technology subjects in form of **digital quizzes and interactive role-playing games**. Furthermore, the teaching/learning offer is supplemented by a digital test scenario in which the voluntary acquisition of bonus points provides an additional incentive.

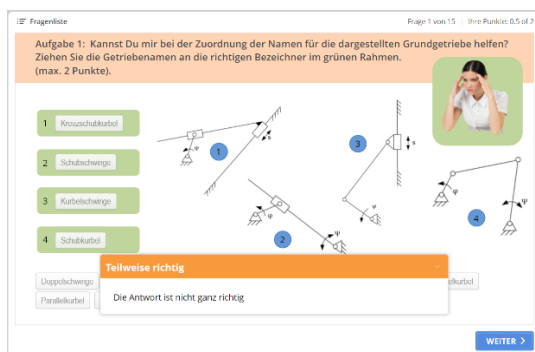
The commercially available software  iSpring[®] is used as an aid. This software enables the lecturer to create quizzes and role plays and to generate instant feedback for the student and the lecturer.



Integration of a quiz into Moodle in SCORM 1.2 format



Repetition slide, teaching content



Drag-and-drop task with partially correct answer selection leads to branching in the quiz process (e.g. repetition slides)



Since the content generated with the software will be integrated **into Moodle**, the students will be able to access the teaching content independently of time and place using different end devices. The **playful transfer of knowledge** and the **possibility of immediate feedback** will increase the degree of motivation for self-study. In addition, lecturers can adjust the focus of the lecture as a result of the feedback.

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