

## Grundlagen der Konstruktion 2 (Fundamentals of Engineering Design 2)

### Content

- Design rules for mechanical engineering.
- Design with respect to material properties and strength requirements
- Design with respect to manufacturing requirements of primary shaped parts (sintered, cast or injection moulded)
- Design with respect to manufacturing requirements of joined parts (welding, soldering, gluing)
- Design with respect to manufacturing requirements of formed parts (bending, drawing, die cutting)

### Competencies

- Knowledge of functioning and cost effective solutions for standard applications
- Skill to judge the fundamental principles of design
- Skill to design cast parts with respect to manufacturing, strength and functionality requirements
- Skill to design formed and machined parts with respect to manufacturing, strength and functionality requirements