



Course number: SET10310 (lecture)
SET 10311 (practice)

Machine Design and CAD

**Study Level: Bachelor /
Undergraduate**

Prof. Dr. Verena Merklinger

Language of Instruction: English

ECTS Credits: 5

Subject-specific competencies:

- The students have basic knowledge of engineering and design.
- They know the rules of technical communication.
- They can read and create technical drawings.
- They understand the Process from the idea to product and know the methods.
- They have basic knowledge of machine elements.
- They understand the interaction between different parts.
- They can create parts in a CAD program.

Methodological competencies:

- The students can talk to others about technical parts and components.
- They can create concepts.
- They can plan the steps from idea to product.

Personal competencies:

- The students can work together in small groups.
- They can convince in technical discussions.

Teaching content:

- Product design
- Design methodology
- Concept development
- Engineering drawings
- Standard parts
- Machine elements
- CAD Creo