

## Machine Elements

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**Subject area:** Mechanical Engineering

**University:** TUM  
**Level:** BA all years  
**Teaching mode:** completely online, not time-specific  
**Instructor(s):** Prof. Dr.-Ing. Karsten Stahl

### Short description

Introduction into product development, strength calculation, welding connections, bolt connections, sliding/rolling contacts, rolling elements bearings, shaft-hub-connections, transmission, gears and lubrication

### Full description

### Learning outcomes

The learner will be able to select, design and calculate the machine elements presented in the lectures according to the requirements.

### General information

**Contact hours per week:** 2  
**Total workload:** 75 hrs (in student hours for the whole course)  
**ECTS credits:** 3  
**Language:** English

**Course start date:** 01 October 2022  
**Course end date:** 20 March 2023  
**Add. info about start date:**  
**Weekly teaching day/time:**  
**Time zone:** CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

**Further information:**

<b>Prerequisites:</b>	Engineering Mechanics Materials Science
<b>Activities and methods:</b>	Lectures
<b>Presence on campus:</b>	final exam on campus at host university

**Final examination**

<b>Form:</b>	written
<b>Date:</b>	
<b>Location/format:</b>	on campus of host institution
<b>Re-sit possibility:</b>	no
<b>Transcript available:</b>	end of academic year
<b>Add. info/requirements:</b>	final exam on campus at host university at the end February/ mid-March

**Registration**

To register for this course, follow the registration requirements of your **home university** as specified here: [www.euroteq.eu/courses-registration](http://www.euroteq.eu/courses-registration).

**Administration**

<b>Number of places:</b>	50
<b>Minimum participants:</b>	
<b>Internal course code:</b>	
<b>Contact:</b>	euroteq.incoming.zv@tum.de

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