

1 Study Program, 2 Study Tracks: Choose your specialization with the **Conception** or **Production Track**.

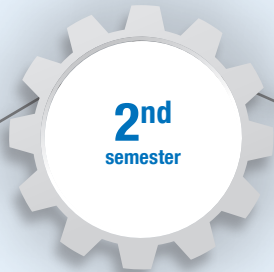
TENTATIVE



- ▶ Advanced Software Engineering
- ▶ Advanced Finite Element Methods
- ▶ Numerical Methods in Mechanical Engineering
- ▶ German Language Course

Electives (examples)

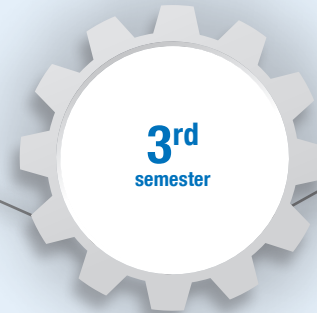
- ▶ Practical Introduction to FEM-Software
- ▶ Fundamentals of Light Weight Design
- ▶ Machine Design Process



- ▶ Continuum Mechanics
- ▶ Failure of Structures and Structural Elements
- ▶ Multibody Dynamics
- ▶ Nonlinear Structural Mechanics
- ▶ German Language Course

Electives (examples)

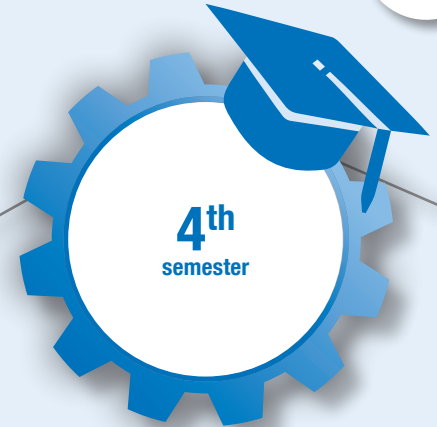
- ▶ Porous Media Mechanics
- ▶ Computational Fluid Dynamics I
- ▶ Intelligent Monitoring of Engineering Systems
- ▶ Simulation of Discrete Event Systems



- ▶ Computational Intelligence in Engineering
- ▶ Artificial Neural Networks in Structural Mechanics
- ▶ Production Management A
- ▶ German Language Course

Electives (examples)

- ▶ Molecular Mechanics and Multi-Scale Modelling of Materials
- ▶ Modelling, Model Reduction and Simulation in Laser Processing
- ▶ Mini Thesis or Industrial Internship



- ▶ Master Thesis