Bachelor Technomathematics (taught in German) - overview

The numbers in brackets indicate the number of credit points for the modules; in total 180 credit points (ECTS), each semester about 30 credit points.

**Technomathematics (Bachelor)**

1st semester
- Linear Algebra I-II and Analytic Geometry (18)
- Analysis I-III (27)
- Introduction to Technomathematics (2)

2nd semester
- Programming courses (7):
  - Computer-oriented Problem Solving
  - Introduction to LaTeX
  - Programming Course C/C++

3rd semester
- Numerical analysis I-II (18)

4th semester
- Optimization (9)
- Seminar Technomathematics (5)

5th semester
- Bachelor thesis Mathematics (15)
- Technomathematics study project (5) (Modelling and Simulation)

6th semester
- Electives Mathematics / Technomathematics (23)

Minor subject (30):
- Physics | Chemistry | Technical Mechanics (Mechanical Engineering) | Electrical engineering and information technology | Structural mechanics and statics (Civil Engineering)

Computer Science (21):
- Data Structures, Algorithms, Programming I-IIa