“The interface between human being and technology has a decisive significance especially in the sports area. The combination of two fields of knowledge with totally different requirements and methods makes the course very fascinating and imparts cross-sectional knowledge which is demanded for the design of each technical facility operated by humans.” (Prof. Dr. Stephan Odenwald, holder of the professorship Sports Equipment & Technology)

**What characterises the Bachelor’s degree programme Sports Engineering?**

Every Athlete depends on his sport equipment, whether it is a sport shoe with special damping characteristics, a state-of-the-art racing bike or an individually adapted tennis racket. The Sports Engineering program takes into account the raising significance of the interaction human being with equipment in the area of sports and links two fascinating research fields: Human Movement and Engineering Sciences. Within the programme students will be enabled to think and act in a transdisciplinary way. The studies will focus on challenges which can only be solved by a joint contribution of sports science and technology.

“I can highly recommend this transdisciplinary course to everyone who is fascinated by technologies for practice and support of human movement. I appreciate especially the broad teaching of engineering sciences and their junction with sports sciences at Chemnitz University of Technology.” (Dr. Peter Wolf, Graduate, Sensory-Motor Systems Lab, ETH Zürich)

**Degree Structure**

**Basic Modules (1st - 6th semester)**

- Technical Physics
- Higher Mathematics
- Basics of Sport Technology
- Equipment and Materials in practice
- Technical Mechanics
- Engineering Design/Mechanical Components
- Materials
- Electrical Engineering/Electronics
- Basics of Sport Science
- English Communication in studies and science
- Scientific work/Statistics
- Manufacturing and Polymer Technology
In-depth Modules (3rd - 6th semester)

- Design
- Specialisation Areas of Sport Technology
- Polymer Technology
- Applied Sport Technology
- Measuring and Sensor Technology
- Sensor and Signal Evaluation

Complementary Module (5th semester)

- Project

Module Bachelor Thesis

Along with studies in the 6th term

This course includes a first mandatory industrial internship at the extent of six weeks which has to be proved until the 3rd term at latest.

Career Opportunities

Graduates will find a great variety of interesting occupational areas on the German as well as on the international job market, for example:

- Development of equipment technology for leisure time, prevention and fitness
- Development and maintenance of apparatus for diagnostics and rehabilitation
- Operation and maintenance of technical equipment in training centres
- Employment at institutions for certification, standardization and testing
- Implementation of R&D-projects at scientific institutions and in enterprises

After the successful completion of the Bachelor’s degree programme it is possible to deepen and enlarge the acquired knowledge in Master’s degree programmes. Chemnitz University of Technology offers a Master degree program in Sports Engineering.
General information

Faculty of Mechanical Engineering

Admission requirements: usually general qualification for university entrance

Standard period of study: 6 semesters

Degree: Bachelor of Science (B.Sc.)

Start of the degree programme: usually winter semester

Language of tuition: German

Further information

Studying in Chemnitz

www.study-in-chemnitz.com

Online application

www.tu-chemnitz.de/studienbewerbung

FAQ - Frequently Asked Questions

www.tu-chemnitz.de/studierendenservice/faq.php.en

Student Service Point

Straße der Nationen 62, room A10.043
+49 371 531-12125
admission@tu-chemnitz.de

Central Course Guidance Service

Straße der Nationen 62, room A10.046
+49 371 531-55555
studienberatung@tu-chemnitz.de

Academic Course Guidance

For an overview of all academic counsellors

www.tu-chemnitz.de/studienberater
Postal address

Technische Universität Chemnitz
Studierendenservice und Zentrale Studienberatung
09107 Chemnitz

For reasons of readability, the masculine gender was mostly used. However, the terms, titles and functions equally refer to all genders.