"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 at Technische Universität Chemnitz
What characterizes the Bachelor degree program 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 program students will be enabled to think and act in a trans-disciplinary 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
- Specialization 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, f.e.
- 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 centers
- 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 degree program it is possible to deepen and enlarge the acquired knowledge in Master degree programs. Technische Universität Chemnitz offers a Master degree program in Sports Engineering.
General Information
Admission requirements: usually general qualification for university entrance, German language proficiency at level B2 according to the CEFR
Standard period of study: 6 semesters
Degree: Bachelor of Science (B.Sc.)
Start of the degree program: usually winter semester
Language of tuition: German

For information concerning all aspects of studies please access:  
www.tu-chemnitz.de/studentenservice/index.php.en

Online application for German students:  
www.tu-chemnitz.de/studienbewerbung

Online application for international students:  
www.uni-assist.de

Further information:  
Technische Universität Chemnitz  
Student Service Point  
Straße der Nationen 62, room 043  
09111 Chemnitz  
+49 371 531-33333  
studentensekretariat@tu-chemnitz.de

Academic Course Guidance  
For an overview of all academic counsellors including contact details please access:  
www.tu-chemnitz.de/studienberater

Central Course Guidance Service  
Technische Universität Chemnitz  
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