

# Advanced and Computational Mathematics

Faculty of Mathematics

# Master degree program

accredited degree program\*



The international Master's degree program Advanced and Computational Mathematics at Chemnitz University of Technology, Germany, leads after four semesters to a Master's degree in mathematics. Students with excellent results qualify for the Ph.D. program.



# What characterizes the Master's degree program Advanced and Computational Mathematics?

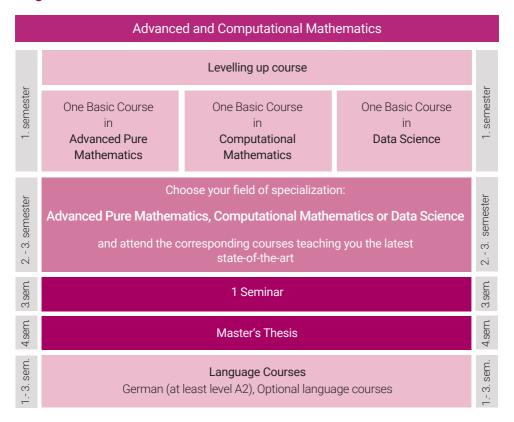
Mathematics is indispensable for an efficient treatment of complex real-world problems coming from engineering, computer science, economics, finance etc. To list a few but rather influential and striking examples, we refer to household automatic control systems, Google ranking, portfolio optimization, weather forecasting or big data analysis. In these and many other areas, state-of-the-art mathematical concepts are used to model, analyze and solve the given problem.

The aim of this four-semester Master's program is to train highly qualified graduates in mathematics who are capable of successfully dealing with challenges encountered in academic and practical working fields. Based on a Bachelor's degree in mathematics, the program deepens knowledge and skills in both theoretical and applied mathematics and prepares students for professional careers in business, industry or research.

# Why study at Chemnitz University of Technology?

Chemnitz University of Technology (CUT) offers outstanding education to its students, providing them with various and attractive career perspectives. Owing to an excellent professor-to-student ratio, CUT ranks among the top five universities in Germany with respect to the quality of teaching. This high staff-to-student ratio allows more individual attention to be given to students, better enabling them to meet specific academic needs and to enjoy shorter course completion times than in most other German universities. Millions of euros have been invested in CUT in recent years, both by the government and through research projects funded by industry, making it one of the most modern research-based universities in Germany.

### **Degree Structure**



For details, please visit www.tu-chemnitz.de/mathematik/mscphd/

## **Career Opportunities**

Job prospects for graduates of the M.Sc. program Advanced and Computational Mathematics are excellent. Job opportunities are very versatile and cover a wide range of different branches in industry and economics, such as:

- · Consulting
- · Banks and insurance companies
- · Software developing
- · Logistics

- · Scientific research
- · Information technology
- · Data analysis
- Telecommunications

In addition, graduates with excellent grades qualify for the Ph.D. program of the Faculty of Mathematics.

Degree: Master of Science (M.Sc.)

Start of the degree program: fall or spring term

Language: English

#### 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

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







\*www.akkreditierungsrat.de

