Congratulations! Your secondary school qualifications open up a wealth of opportunities for undergraduate study. Only you can decide which particular course of study is right for you, and information about the courses offered at the Regensburg University of Applied Sciences should make your choice easier. However there is no substitute for a personal interview, and you are warmly invited to come and talk to our faculty staff on campus.

You can be confident that the Regensburg University of Applied Sciences, with its excellent reputation both in Germany and internationally, will provide the right environment for your studies. And your first visit of discovery should convince you how lovely Regensburg is. I would be delighted to welcome you here as a new student!

Prof. Dr. Josef Eckstein
President of the Regensburg University of Applied Sciences
DEAR PROSPECTIVE STUDENTS

Are you keen to help shape our future and interested in innovative problem solving? Are you looking for a profession that offers excellent prospects in a wide range of fascinating fields? If you are, then our Bachelor degree course in Mathematics is right for you!

The challenges facing mathematicians can only multiply at a time when science, technology and commerce are advancing at an ever-increasing rate. The skills and abilities which the study of mathematics imparts will enable you to respond quickly and creatively to the demands of a changing environment. You can look forward to good career prospects and opportunities for advancement.

Our accredited 7-semester Bachelor degree course in Mathematics is the ideal preparation for your future working life. And if you wish, you can go on to study for an M.Sc. in Mathematics in a further three semesters. You are making an excellent choice and one that will open many doors.

Prof. Dr. Markus Kucera
Dean of the Faculty of Computer Science and Mathematics

YOUR STUDY

- A voluntary preparatory course will ease your move from school to university.
- The degree course teaches important fundamentals and key competences, and offers additional options for advanced study following the placement semester.
- Study options such as 'Engineering' and 'Information Technology' or 'Actuarial Sciences' provide optimum preparation for the job market.

STUDY CONTENT

### Mathematics

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### Computer science and Soft Skills

- Basic computer science
- Programming
- Mathematical software
- Databases
- Presentation
- General studies
- Elective subject

### Application subjects

- Approximation theory
- Differential geometry
- Discrete mathematics
- Theory of functions
- Linear optimisation

### Bachelor's dissertation

YOUR FUTURE AREAS OF ACTIVITY

The career options for mathematicians cover many important sectors such as

- Engineering and information technology,
- Insurance and banking.

This will open the way to varied and interesting areas of activity depending on your personal preferences and abilities.

We encounter mathematics every day in a variety of applications:

- Mathematical modelling is at the heart of any computer simulation, for example in medicine or the automotive industry, rendering complex, expensive experiments such as crash tests increasingly obsolete.
- Optimising timetables and schedules has as much to do with mathematics as the creation of route planners for vehicle navigation systems.
- Encryption as used in online banking would be unthinkable without large prime numbers.
- Risk modelling is a vital tool for insurance companies.

WHAT WE EXPECT FROM YOU...

... You should be able to think logically, analytically and systemically, and enjoy solving mathematical problems.

PLEASE ASK FOR MORE INFORMATION