

Branch: IT and communication



Code: SOFDEV

Option: Software development

Level: Bachelor

Prerequisites: Scientific baccalaureate or equivalent

Opportunities:

Career prospects are above average with a degree and you can work in a wide variety of sectors. Graduates of this program design implement and maintain software systems based on mathematical models and methods. The application areas (e.g. software development, process simulation, data evaluation, data analysis, quality assurance) as well as the business sectors (including software and system houses, software departments of large companies, universities and other research institutions) are diverse. Career prospects are above average.

Description

The B.Sc. Mathematical and Technical Software Engineering is an interdisciplinary study programme leading to a first degree with professional qualification. You will gain in-depth knowledge in the areas of modelling, simulation, optimisation and visualisation of complex technical processes, as well as specific skills in software development. You will learn to gain an overview of technical contexts and to select and apply the appropriate scientific methods to solve problems.

In addition, the study program also provides key interdisciplinary qualifications such as teamwork, methodological and social skills.

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Quality and competences:

The degree program in Mathematical and Technical Software Development is suitable for you if, in addition to abstract and logical thinking and mathematical understanding, you are interested in technology and have not yet been able to decide between a degree program in mathematics and computer science. The courses also require communication and teamwork skills. You should also be prepared to acquire any missing (prerequisite) knowledge during your studies.