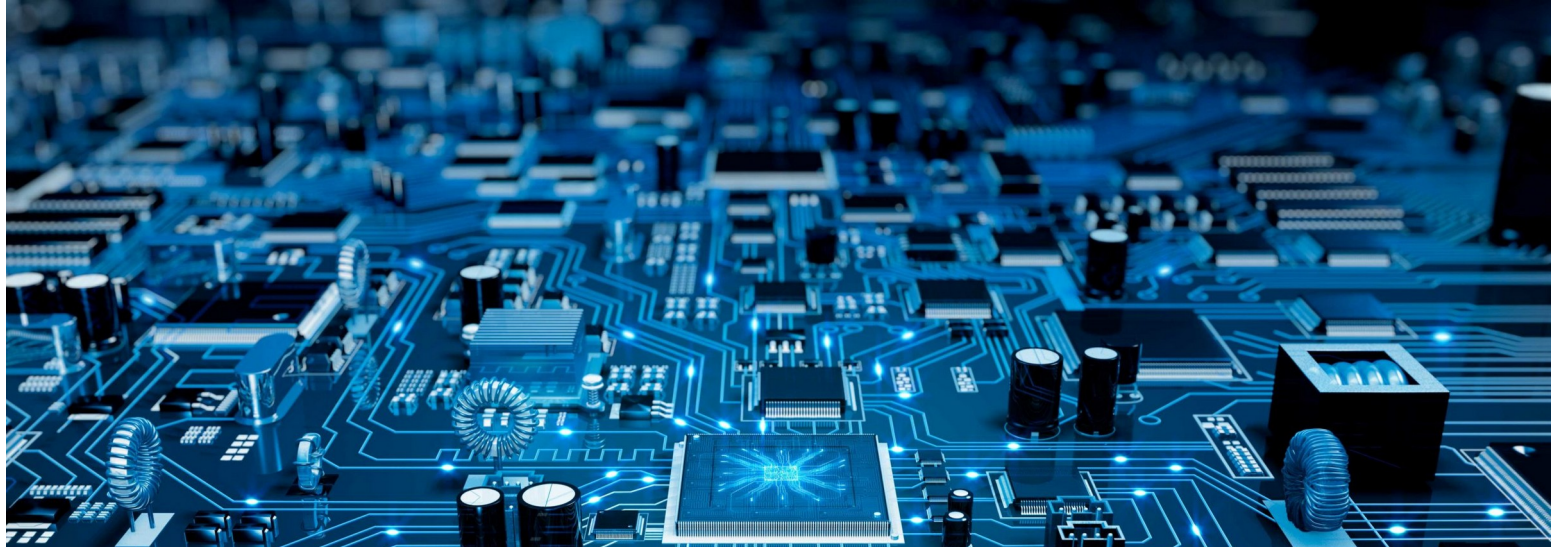


# Branch: IT and communication



**Code:** COMSCI

**Option:** Computer science

**Level:** Bachelor

**Prerequisites:** Scientific baccalaureate or equivalent

**Opportunities:**

Although computer science is still a relatively young discipline, it has already assumed a pioneering role in industrial society. Graduates of the Bachelor of Science in Computer Science program embark on exciting careers in the fields of software engineering, research and IT consulting in Germany and abroad.

They work in all sectors of industry and commerce, in mechanical and electrical engineering, mathematics and medicine. Graduates design complex information systems for companies, program robots, build data networks between banks and companies and develop traffic control systems, to name but a few.

**Description**

Computer science is the science of systematic and automated information processing. It is a constantly evolving discipline that deals with the way information is structured, presented and processed in novel and also highly technical computer systems. The Uut Bachelor of Science in Computer Science is an exciting and challenging programme of study. In terms of content, it not only covers computer science itself, but also keeps an eye on its applications. It offers you the opportunity to acquire solid theoretical, practical and technical skills in a constantly evolving field. No other science has changed the world of life and work as much over the last 30 years as IT. Mobile phones, digital

cameras and computers have become everyday items in a very short time, and the internet has taken hold at a rapid pace. Computers have also enabled huge advances in medicine, automotive engineering and aerospace.

**Specific competences :**

As a graduate, you have a sound knowledge of computer systems and mathematics, and you have also been able to acquire the initial foundations for a specialization.

You know the basic concepts and laws of programming languages, computer architecture, algorithms, data structures, software engineering, databases, computer networks and operating systems. In addition, you could improve your mathematical skills in calculus, linear algebra and discrete structures. In addition, you will understand the principles of theoretical computer science, probability theory and statistics.

**Quality and competences :**

During your studies, you will be able to gain advanced knowledge in the areas of specialization that interest you most. These include software engineering, databases, artificial intelligence, computer graphics, computer security, computer architecture, algorithms and scientific computing.