

Branch: Chemistry and chemical engineering



Code: CHEMIS

Option: Chemistry

Level: Bachelor

Prerequisites: Scientific baccalaureate or equivalent

Opportunities:

Graduates of the Bachelor of Science in Chemistry program have a wide range of prospects: in industry, research institutes, universities and also in the public sector. But other sectors also offer interesting options: The cosmetics, food, automotive, electrical and building materials industries, metal production and processing, business consulting, the energy industry, insurance, water supply, wood processing and paper manufacturing, federal institutes and state authorities, trade supervision offices, customs, fire departments, police, state criminal investigation departments or clinics.

Description

Modern therapy, molecular machines, chip technology, efficient catalysts, new energy sources - these are all areas of research in which chemists contribute ideas and develop new concepts. Chemistry is the most important interdisciplinary science in which fascinating areas of research are effectively

linked. Chemistry has a long and unbroken tradition in Germany. Today, it remains the most important natural science in our country.

Chemistry is the ideal subject for young people who are interested in the natural sciences, who want a broad education and who wish to specialise during their studies without having to commit themselves to a narrowly defined special subject at the beginning of their studies. The chemistry programme at the Uut offers an excellent, future-oriented education in the fundamentals of the natural sciences. Uut covers as many different areas of chemistry as the Uut analytical chemistry, biochemistry, biotechnology, construction chemistry, food chemistry, medicinal chemistry, radiochemistry, technical chemistry with chemical engineering, water chemistry, plus the classical disciplines: organic / inorganic / physical-theoretical chemistry. The study concept of a specialisation after a well-founded basic study guarantees a flexible combination of subjects.

Specific competences:

As a graduate, you will be able to understand basic chemical issues and develop initial approaches to solve new problems. You will have in-depth knowledge in various sub-fields of chemistry: inorganic and analytical chemistry, organic chemistry and biochemistry, physical, theoretical and technical chemistry.

Quality and competences:

In addition, your mathematical and physical understanding enables you to classify and evaluate chemical facts correctly. You know the basic principles of modern analytical methods and can apply them correctly.

On completion of the degree in chemistry, you will have acquired the manual skills and working techniques of the discipline, be familiar with laboratory work and be able to approach both theoretical and practical questions in a well-founded manner. Interdisciplinary foundations in areas such as languages, teamwork or presentation skills complete your profile.