



Europa-Universität
Flensburg

Institute of Mathematical, Scientific and
Technical Education
Department of Technology and its Didactics

Who we are

Study and teaching

Research

Study interested

One ought to be ashamed to make use of the wonders of science embodied in a radio set, the while appreciating them as little as a cow appreciates the botanic marvels in the plants she munches.

Albert Einstein



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» **Studying Engineering**

» Overview of the degree courses

Studying technology - more than just "tinkering"!

We are living in a world full of technology. The latter makes our everyday life easier, not only at work and at school, but in all life conditions. Since: Without technology there would be no modern human - and without modern humans there would neither be any technology. Technology is an inherent part of our culture. Its development, application and its consequences are always linked to human beings.

It is with the help of technology that we overcome difficult tasks, make our everyday life more comfortable, spend our leisure time, get things done within an ever shorter time, communicate with each other and much more.

Technology is an exciting issue. As early as in childhood it holds a special fascination for us. We wonder: "How does this work?" or really want to try the handling of technical devices ("May I also try?").

However, the look "behind the scenes" increasingly eludes many users of modern technology. We are in danger of being demoted to mere users of technology without knowing the correlations and functions of those things we are using. This leads to a dependency which is already now showing its initial impacts in everyday life: Any technology that does not work makes us angry, sometimes even anxious and at worst it puts us at risk. Even in case of any minor problems, users are frequently no longer able to identify the problem on their own or even resolve it.

The partial study courses in "Technology" from a beginner to a decathlete

We aim at providing a general technical education for future generations. It is important to us that every human being is able to find his or her way in our technology-driven world. – This involves a perception of technology that does not just address its development and optimization, but also keeps an eye on the user requirements as well as the effects of technical developments on the environment and society.

This is why we do not mainly concentrate on mathematics, physics, biology or physics, even if we certainly go back to many findings from these subjects. This fact distinguishes us from a mere engineering degree course.

The technical studies are rich in variety. We do not focus on the specialization in any technical discipline, but on skills and knowledge in many technical disciplines. Therefore, the course of study is based on three pillars:

- » Subject-specific theory
- » Subject-specific practical training
- » Teaching methodology

There is no longer room for mere "handicrafts" as still taught in the last century. Although the manufacturing of objects is included in the field of "Subject-specific practical training", the latter does not have any priority in the study program. For example, in subject-didactic modules self-developed teaching objects (learning media) are implemented in accordance with the own planning. We never understand the manufacturing of any objects as an end in itself. The classic manual processing of woods, metals and plastics is as obvious as modern, computer-aided manufacturing processes (such as e.g. 3D printing, processing by way of laser cutters, CNC mills, etc.).

In this context, the information technology plays an important role. From the first solder point during the construction of a circuit board to the complex activation of robots we offer our students everything which will help them later to impart general technical knowledge.

Brains, creativity and workshop air

The days of dusty workshops have long since been numbered. In our laboratories, order and cleanliness are not required for safety reasons only. – Our modern production machines are too sensitive with regard to any adverse external circumstances.

Our partial study courses are rich in variety. A close connection between theory and practice is realized by us.

Early on, our students have to tackle challenges which require their creativity and brains. The starting point of technical developments is usually a problem that is to be solved. The development of technical solutions from the initial idea to the finished product requires a lot of communication and is an exceptionally creative process. All work steps are characterized by high degrees of freedom that are also always decided in a subjectively motivated manner. Such problem-solving processes are often developed in a team during our partial study courses. Moreover, we educate no classic engineers, but teachers for the subject of technology. Thus, working with other people is always guaranteed.

What do the partial study courses in "Technology" offer?

- › Challenging tasks at the theoretical and practical level
- › Varied study contents
- › Well-equipped laboratories and workshops
- › Individual supervision through the teaching staff
- › Individual realization of own ideas
- › Unique mixture of teamwork and individual work phases
- › Promising career prospects at and outside school

Where can I get any further information?

Europa-Universität Flensburg has created special [Information Pages](#) for prospective students. Further information on the partial study course "Technology and its didactics" can also be found here.

Should you have any further questions, please do not hesitate to contact us.

Our [List of Employees](#) from which you can also learn the office hours can be displayed by activating the link.

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