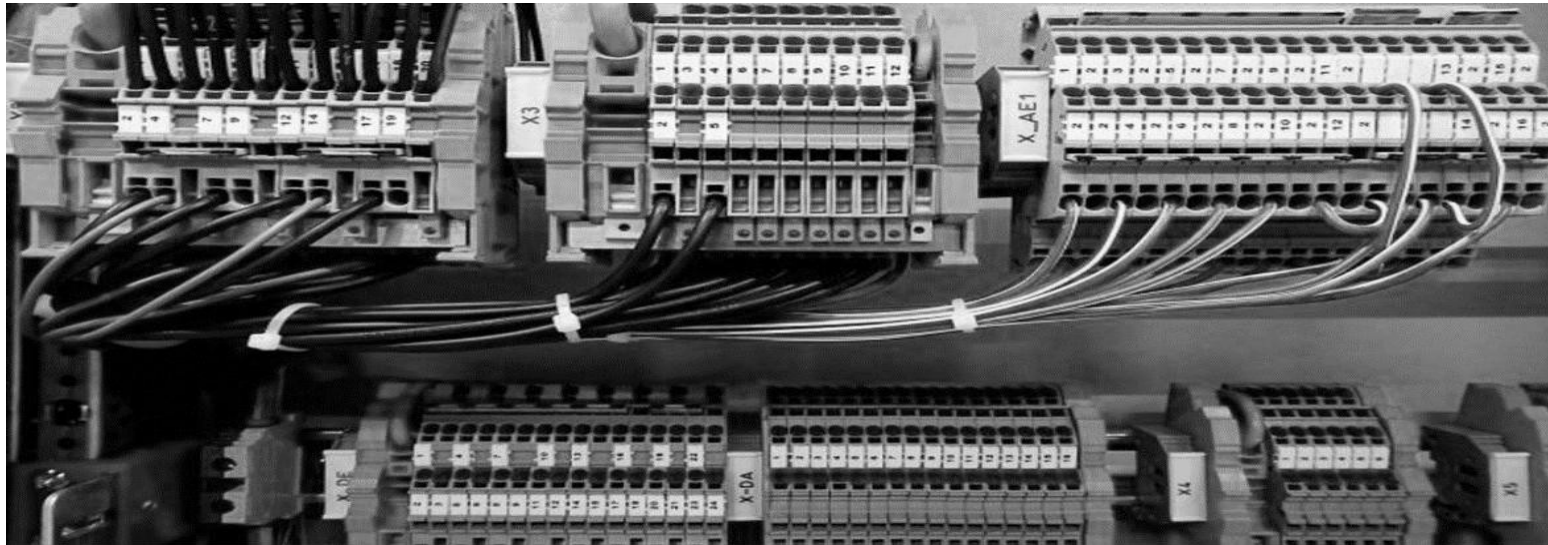


# Branch: Electrical Engineering



**Code:** EEITEC

**Option:** Electrical Engineering and Information Technology

**Level:** Master

**Prerequisites:**

**Opportunities:**

After completing the Master's degree, there are opportunities in research and development, sales, production or technical purchasing, both in industry and in research institutions. In addition, you can take up positions in the patent system or decide to become self-employed.

**Description:**

The scientifically oriented Master's program in Electrical Engineering and Information Technology deepens the already existing knowledge of facts and methods and offers the possibility of a professional specialization for a career in industry or research.

What does this degree program consist of?

The program builds on existing expertise in the field of electrical engineering and information technology and covers the spectrum of electrical engineering and information technology in all its scientific facets. In addition, it offers a great deal of freedom of choice in the modules offered, allowing for specialization in particular areas of interest. The following core areas are available for selection:

Automation and Robotics

Embedded and computer systems

Micro and Nano electronics

Neurological engineering

Energy engineering

The emphasis is on a scientific and research-oriented education, in which project work and internships are integrated. Students also gain initial experience of independent scientific work in an integrated research practice. The interdisciplinary modules enable students to broaden their own skills through intercultural, business, social and personal competences.

**Quality and competences:**

As a graduate, you will be able to independently design, analyze and develop complex electrical or computer systems. You will understand the physical principles behind processes and know the basics of mathematical modelling. Depending on your choice of specialization, you will also have in-depth knowledge in your particular field.

Your skills enable you to correctly classify the technical, economic, social and ecological effects of technologies. You are able to identify and stimulate innovations in the field of electrical engineering and information technology and to evaluate existing potentials. In interdisciplinary project teams, you will assume a leadership position and communicate your results and solutions in a manner appropriate to the target group.