# Electrical Engineering and Information Technology - International Master of Science (IMSEIT)

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<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
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<tr>
<td><strong>Mandatory Basic Module</strong></td>
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<td><strong>Internship/Industrial Placement</strong> (30 CP)</td>
<td><strong>Project/Master Thesis</strong> (30 CP)</td>
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<td>System Design (7.5 CP)</td>
<td>Technical Management (7.5 CP)</td>
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<td><strong>Modules (subject to major)</strong></td>
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<td>Select from the following majors:</td>
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<td>Automation</td>
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<td>Communications</td>
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<td>Embedded and Microelectronics</td>
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<td>Power</td>
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**Perspectives:**
- The degree will prepare and qualify for leading positions worldwide in relevant fields. Typical responsibilities include:
  - research and development
  - technical management
  - production
  - consultancy
  - application engineering
- may, with excellent academic standing, prepare and qualify for subsequent Ph.D. studies
- For an occupation in public service in Germany, the degree will qualify for positions in civil service upper rank (Höherer Dienst)

## The Professional and Practical View: What are the perspectives after graduation?

Our graduates find well-paid and challenging jobs on all levels and in all sectors of industry, small- and medium-size high tech enterprises, in administration, or self-employed. Interdisciplinary course contents, such as economic issues or professionally managing projects, prepare for later leadership responsibilities.

## The Modularized Curriculum: How is the program structured?

The four-semester program is two-phased: one academic classroom oriented first year with theoretical content and a two-progression curriculum. Mandatory modules shared by all majors, as programming techniques, project management, presentations and communication skills. Major-specific mandatory modules are complemented by optional modules from any of the four majors. The third semester is dedicated to an industrial internship to gain experience within a German enterprise. Students will conclude IMSEIT during the final semester doing their Thesis project in a demanding research-related topic.

## Required for admission:
- Required for admission are a Bachelor’s degree with demonstrated academic achievements well above average, from an institution of recognized standing, in the field of Electrical Engineering and Information Technology, or a closely related field with substantial electrical engineering content (e.g. computer science, mechatronics, etc.).
- Advanced English language proficiency is required, as all courses are taught in English.
- Admission is once a year for Autumn intake only.
- The IMSEIT exam board will waive parts of the curriculum if prior training can be demonstrated to be equivalent in learning outcome.

## Additional Requirements:
- For non-native speakers, concurrent German classes are offered during the preparatory phase as well as throughout the academic semesters, for which again, attendance is mandatory. Attaining A2 level will be a prerequisite for graduation.

The program: "What does it consist of?"

Our two-year course 'International Master in Electrical Engineering and Information Technology (IMSEIT)' covers all relevant fields in electrical engineering and IT.

Select one of four majors:
- Automation
- Communications
- Embedded and Microelectronics
- Power Engineering

IMSEIT emphasizes a systems perspective: Topics and processes, tasks and projects take an integrated and synoptic approach, highlighting a consistent international orientation. Language of instruction and curriculum are English. Classroom settings and projects are conducted in international and intercultural teams. Specific intercultural and academic pre-semester offerings will assist students in settling in Germany. Internships and thesis research will be performed at enterprises of international standing either in Germany or, if so desired, world-wide. The program organization ascertains a transparent step-by-step admission process, a course of studies which can be mastered, and the completion within a set time framework.

## Further Information:
- The degree will prepare and qualify for leading positions worldwide in relevant fields. Typical responsibilities include:
  - research and development
  - technical management
  - production
  - consultancy
  - application engineering
- may, with excellent academic standing, prepare and qualify for subsequent Ph.D. studies
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