



# HSD

Hochschule Düsseldorf  
University of Applied Sciences



Faculty of Electrical  
Engineering and  
Information Technology

**Bachelor of Engineering**

# Industrial Engineering – Electrical Engineering Branch

## Profile

You are interested in technical and economic matters? You would like to extend your expertise in a very practically orientated study programme? You also speak German? Then the six-semester bachelor's programme Industrial Engineering – Electrical Engineering Branch might be just the right choice for you.

With this first professional qualification, you will be prepared to apply relevant expert knowledge to practice. This will make it easy to settle into a new position and start working independently – across various corporate divisions.

In this interdisciplinary study programme, you learn about technical concepts and complex interdependencies between developments and products. The basic modules on engineering convey fundamentals of natural sciences and technology; the ones on economic contents teach you fundamentals of business administration.

In addition, we offer modules in the different areas of electrical engineering (e.g. microelectronics, automation, electrical power engineering and information technology) – as well as various courses in technical sales. In semester five, you can choose additional elective modules and dive into project work.

During your last semester, you work on the practical project and write a thesis to complete your studies.

**Please note:** The language of instruction is mainly German.

## **Career Options**

The bachelor's programme Industrial Engineering – Electrical Engineering Branch offers great career entry and future promotion prospects. Thanks to the interdisciplinary study programme, almost all kinds of corporate divisions potentially need industrial engineers.

As a successful graduate, not only can you work in corporate sales, marketing or controlling departments, but also at consulting firms.

# SYLLABUS

## SEMESTERS 1-2

- Mathematics
- Fundamentals of Electrical Engineering
- Fundamentals of Computer Science
- Fundamentals of Natural Sciences
- Fundamentals of Business Administration
- Accounting, Annual Accounts and Controlling
- Industrial Marketing
- Intercultural Management and Business Etiquette

## SEMESTER 3

- Fundamentals of Electrical Power Engineering
- Fundamentals of Automation Technology
- Fundamentals of Microelectronics
- Fundamentals of Information Technology
- Cost Accounting, Results Accounts and Pricing
- Market Research and Statistics

## SEMESTER 4

- Project Management and Business Simulation
- Market Analysis and Operations
- Investment Calculation and Quotation
- Technical and Business English
- 2 Compulsory Elective Modules: Technical Contents

## SEMESTER 5

- Sales, Products and Services
- Design Project
- 1 Compulsory Elective Module: Technical Contents
- 3 Compulsory Elective Modules: Economic Contents

## SEMESTER 6

- Practical Project
- Bachelor's Thesis

Please check the module manual (currently only in German) for detailed information on the contents of the study programme.

## Further Information

### Faculty contact:

Dean's Office at the Faculty of Electrical Engineering  
and Information Technology

T +49 211 4351-2300

[dekanat.ei@hs-duesseldorf.de](mailto:dekanat.ei@hs-duesseldorf.de)

About the programme, admission requirements  
and application:

[ei.hs-duesseldorf.de/bwi-en](http://ei.hs-duesseldorf.de/bwi-en)

## Get in Touch

### Admissions Office

[zulassung@hs-duesseldorf.de](mailto:zulassung@hs-duesseldorf.de)

[hs-duesseldorf.de/zulassungsstelle](http://hs-duesseldorf.de/zulassungsstelle) (in German only)

### Student Advisory and Counselling Service (ZSB)

[studienberatung@hs-duesseldorf.de](mailto:studienberatung@hs-duesseldorf.de)

[hs-duesseldorf.de/zsb-en](http://hs-duesseldorf.de/zsb-en)

### International Office (IO)

[international-office@hs-duesseldorf.de](mailto:international-office@hs-duesseldorf.de)

[hs-duesseldorf.de/io-en](http://hs-duesseldorf.de/io-en)

### Family Support Centre

[familienbuero@hs-duesseldorf.de](mailto:familienbuero@hs-duesseldorf.de)

[hs-duesseldorf.de/fam-en](http://hs-duesseldorf.de/fam-en)

### Office of Counselling and Disability Services (ABS)

[barrierefrei@hs-duesseldorf.de](mailto:barrierefrei@hs-duesseldorf.de)

[hs-duesseldorf.de/abs-en](http://hs-duesseldorf.de/abs-en)

### Psychological Counselling Service (PSB)

[info.psb@hs-duesseldorf.de](mailto:info.psb@hs-duesseldorf.de)

[hs-duesseldorf.de/psb-en](http://hs-duesseldorf.de/psb-en)

## HSD Invites You

Visit us! Join courses during our yearly trial week  
(*Schnupperstudium*) and attend our information events  
(e.g. *Tag der offenen Tür*, *Hochschulinformationstage*,  
*Wochen der Studienorientierung*).

Information on all events (in German only):

[hs-duesseldorf.de/zsb\\_veranstaltungen](http://hs-duesseldorf.de/zsb_veranstaltungen)

HSD on social media  
[facebook.de/hsduesseldorf](https://facebook.de/hsduesseldorf)  
[instagram.com/hsduesseldorf](https://instagram.com/hsduesseldorf)

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