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 oriented 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.

Admission Requirements

Please check if you meet all requirements for admission to the study programme. Further information: ei.hs-duesseldorf.de/bwi-en
SEMESTERS 1–2
– Mathematics
– Fundamentals of Electrical Engineering
– Fundamentals of Computer Science
– Fundamentals of Natural Sciences
– Fundamentals of Business Administration
– Market Analysis and Operations
– Industrial Marketing
– Cost Accounting, Results Accounts and Pricing

SEMESTER 3
– Fundamentals of Electrical Power Engineering
– Fundamentals of Automation Technology
– Fundamentals of Microelectronics
– Fundamentals of Information Technology
– Market Research and Statistics
– Accounting, Annual Accounts and Controlling

SEMESTER 4
– Project Management and Business Simulation
– Investment Calculation
– Intercultural Management and Business Etiquette, 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 Faculty of Electrical Engineering and Information Technology
T +49 211 4351-2300
dekanat.ei@hs-duesseldorf.de

About the programme, admission requirements and application:
ei.hs-duesseldorf.de/bwi-en

Get in Touch

Admissions Office
zulassung@hs-duesseldorf.de
hs-duesseldorf.de/zulassungsstelle (in German only)

Student Advisory and Counselling Service (ZSB)
studienberatung@hs-duesseldorf.de
hs-duesseldorf.de/zsb-en

International Office (IO)
international-office@hs-duesseldorf.de
hs-duesseldorf.de/io-en

Family Support Centre
familienbuero@hs-duesseldorf.de
hs-duesseldorf.de/fam-en

Disability Services (ABS)
barrierefrei@hs-duesseldorf.de
hs-duesseldorf.de/abs-en

Psychological Counselling Service (PSB)
info.psb@hs-duesseldorf.de
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