

Industrial Engineering

Bachelor

PROGRAMME OBJECTIVES

Students of all nationalities learn to:

- combine engineering and economic principles with sustainability aspects and diversity
- develop holistic solutions for economic, logistical, ecological and social challenges
- assess, organize and optimize business processes economically as well as technically



PROFESSIONAL FIELDS

Industrial engineers can put the skills and competencies they have acquired into practice in a wide range of areas. In addition to the aforementioned interdisciplinary approach balancing technology and business-related courses, topics such as sustainability and diversity also enhance the graduates' profiles.

Based on their broad education, graduates will be able to assess company processes not only technically, but also economically, and thereby start and control optimisation processes. Career options after graduation are manifold. Industrial engineers work in purchasing, production planning, product management, quality and project management or technical sales. Later on, they often also fill positions in marketing, finance and controlling.

PROGRAMME CONTENT

All courses are taught in English.

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester
<ul style="list-style-type: none"> – Principles of Economics – Future Technologies & Sustainability – Introduction to German Culture & Language OR Intercultural Communication – Basics of Programming – Mathematics I 	<ul style="list-style-type: none"> – Accounting and Finance – Procurement, Production & Logistics – Physics – Innovation & Project Management – Mathematics II 	<ul style="list-style-type: none"> – Basics of Mechanical Design – Basics of Electrical Engineering – Engineering Mechanics – Statics and Strength of Materials – Databases – Statistics 	<ul style="list-style-type: none"> – Cost and Investment Accounting – Lean Production & Industrial Engineering – Business Process Modelling and IT Systems – Operations Research – Project 1 	<ul style="list-style-type: none"> – Controlling – Industrial Automation Technology – Materials Engineering – Production Planning and Control – Project 2 	<ul style="list-style-type: none"> – Marketing and Technical Sales – Control Technology – Microcontroller Programming – Supply Chain Management – Practical Project/ Internship 	<ul style="list-style-type: none"> – Human Resources Management – Industrial Communication – Quality Management – Bachelor Thesis

PROGRAMME ORGANIZATION

Students enrolled in the full-time study programme Industrial Engineering are members of the same group as the students enrolled in the work-integrated programme. During the lecture-free periods of the 4th and 5th semester, they prepare term papers on topics assigned by the teaching staff. Alternatively, the term papers may be based on work-oriented projects at the university or in companies. During the lecture-free period of the 6th semester, an internship in a company is compulsory. Switching to the work-integrated version is possible, as the courses of study are largely identical.



FACTS

Admission requirements

- Abitur, Fachhochschulreife or an equivalent school leaving certificate or educational background that qualifies for higher education.
- B2 level in English

Application

The application deadline is July 15.
Start of study: winter semester

For more Requirements on Admission and Application:



Duration of Study

7 Semester (180 credit points)

Degree

Bachelor of Engineering

Cost

The current contribution amount
➤ www.hsbi.de/kosten

Place of study

Hochschule Bielefeld –
University of Applied Sciences
and Arts (HSBI)
Faculty of Engineering
and Mathematics
Gütersloh Campus
– Gleis 13, Haus III
Langer Weg 9 a
33332 Gütersloh
– Flöttmanngebäude
Schulstraße 10
33330 Gütersloh
➤ www.hsbi.de/guetersloh

CONTACT

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**General Questions on Studies
Student Advising and Counselling**
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Questions about the Degree Program

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