

PROGRAMME OVERVIEW

Phase I studies (excerpt)	Semesters 1-3	Economic subjects <ul style="list-style-type: none"> • General business economics • Bookkeeping and accounting • Logistics • Investment and financing
		Engineering subjects <ul style="list-style-type: none"> • Engineering design and production technologies • Engineering mechanics • Materials science and engineering • Physics
		Mathematics and informatics <ul style="list-style-type: none"> • Mathematics, statistics • Introduction to informatics • Operations research
		Language, communication and soft skills <ul style="list-style-type: none"> • Foreign languages • Communication
Phase II studies (excerpt)	Semesters 4-7	Economic subjects <ul style="list-style-type: none"> • Economics • Financial planning and control • Business law and private law
		Engineering subjects <ul style="list-style-type: none"> • Automation engineering • Electrical engineering • Process engineering
		Language, communication and soft skills <ul style="list-style-type: none"> • Academic methodologies and study skills • Project work
		Electives <ul style="list-style-type: none"> • Production • Management systems • Information processing • Corporate management • Energy and power
		Work experience phase Case study (interdisciplinary) Final-year research project and thesis

CONTACTS

Fakultätssekretariat Wirtschaftswissenschaften Business School – Main Office

Waldhausweg 14, B-1-11
66123 Saarbrücken
Germany

Andrea Kirsch
Phone: +49 681 5867-576
E-mail: wiwi-sek@htw-saarland.de
9 am – 11.30 am (weekdays)

Industrial engineering – Departmental student organization

Phone: +49 681 5867-580
E-mail: fswi@htw-saarland.de

Studierendensekretariat der HTW HTW Admissions Office

(Studienplatzvergabe / Allocation of places)
Goebenstraße 40
Phone: +49 681 5867-115 or -116
Fax: +49 681 5867-151
Office hours:
Mon, Tues, Thurs, Fri: 9 am – 11:30 am
Wed: 1:30 pm – 4 pm

Industrial placement

Dipl.-Kffr. Annemarie Philippi
Phone: +49 681 5867-535
E-mail: annemarie.philippi@htw-saarland.de

www.htw-saarland.de

Issued by:
Press and Public Relations Office
Saarland University of Applied Sciences, January 2009

Hochschule für
Technik und Wirtschaft
des Saarlandes
University of Applied Sciences



Hochschule für
Technik und Wirtschaft
des Saarlandes
University of Applied Sciences



Bachelor's degree programme in Industrial Engineering

BUSINESS SCHOOL



■ HIGHLY SOUGHT-AFTER ALL-ROUNDERS

Graduates from industrial engineering programmes are highly employable as they offer the analytical skills of an engineer and the market awareness of a business graduate, making them ideally suited to bridge the gap between the technical and commercial aspects of a company's business activities.

Their ability to see the world from two different angles makes industrial engineering graduates excellent team players. Good foreign language skills and an awareness and understanding of other cultures and mindsets are essential for industrial engineers who travel widely, helping to shape the future locally.

For industrial engineering graduates breadth of vision is all important and technical expertise means offering more than just specialist knowledge in a single field.

But regardless of whether they are working as a specialist or an all-rounder, industrial engineers are employed to work on a vast array of assignments.

The following list, which is a selection of final-year theses written by students on the Industrial Engineering B.Sc. programme at Saarland University of Applied Sciences, demonstrates the variety of career paths that graduates can take:

- Developing a system for capacity planning in prototype production and serial fabrication
- Creating an energy supply concept for a school, sports hall and old-people's care centre
- Optimization of the annealing processes for crank shaft production at an automotive production company
- Designing logistics and storage concepts in the automotive industry
- Insourcing versus outsourcing of transport and logistics services in a electronics company
- Problems associated with establishing a medium-sized company
- Automated design of hydraulic pumps using the Pro/Engineer 3D-CAD system

■ ENTRY REQUIREMENTS

The B.Sc. programme "Industrial Engineering" is compact and practically focused. Prospective students wishing to join the Bachelor's programme at Saarland University of Applied Sciences must have an appropriate higher-education entrance qualification. Detailed information on the admission requirements is available from our International Office.

To ease the transition from school to a university of applied sciences, students are also required to complete a period of pre-study practical training. The practical training must last for a period of at least eight weeks and must be completed by no later than the start of the third semester. As the lecture courses held in the first two semesters refer directly to the practical training period, we strongly recommend that students complete the entire practical training period before starting the degree programme. Questions relating to this and other issues can be addressed to the student advisory service at the Business School.

■ PROGRAMME DURATION AND STRUCTURE

The standard period of study for the B.Sc. programme in industrial engineering is seven semesters and is divided into phase I and phase II studies.

Right from the start, the programme has been designed to offer students a broad range of practically relevant modules in engineering and economic disciplines, including:

- Engineering design and CAD
- Materials science and technology / Production technology
- Investment and financing
- Business law and private law
- Introduction to informatics and business informatics

The large number of elective modules on offer, the integrated project work and case study analyses allow students to choose their own areas of specialization. Students also have the opportunity to learn important soft skills such commitment, personal initiative and the ability to work in teams – all skills that are increasingly in demand from today's university graduates.

■ INDUSTRIAL PLACEMENTS

The practical relevance of the B.Sc. programme is underscored by the requirement that students undertake an industrial placement. During this period, students who are nearing the end of their degree programme, have the opportunity to apply their skills to real projects at a company of their choice. The industrial placement involves six months of project work followed by a three month period in which students write their Bachelor's thesis. Any students having difficulty finding a suitable placement on their own will receive assistance from the Business School.

■ STUDYING ABROAD

More and more students are choosing to spend time at one of our international partner universities, where they can take selected modules during their fifth semester or undertake their industrial placement.

■ MASTER'S AND DOCTORAL DEGREE PROGRAMMES

Graduates from the B.Sc. programme in industrial engineering who are looking for further academic challenges can apply to join one of the many Master's degree programmes offered by Saarland University of Applied Sciences (HTW) and other universities. HTW has been running an M.Sc. programme in industrial engineering since the summer semester of 2008. The Master's programme offers students the chance to strengthen and consolidate their knowledge and skills in the fields of industrial manufacturing or network economics. As in the B.Sc. programme, the Master's degree has a strong interdisciplinary profile. The Master's programme is designed to be completed in three semesters by full-time students and in six semesters by part-time students already in work.

■ CAREER PROSPECTS

Because of the broad education and training they receive and the variety of areas in which they can be successfully employed, career prospects for industrial engineers are good. Regardless of whether the job market is currently looking for economists, engineers or IT specialists, industrial engineers are always highly sought after.