

# Overview

## Target Group

Doers with an interest in both technical and economic issues aiming to combine their interdisciplinary technical understanding with economic benefits.

## Degree Awarded

Bachelor of Engineering (B.Eng.)

## Duration of Study

- 7 semesters standard period of study
- Scope of study: 210 ECTS
- Practical study semester in the 5th semester (in Germany or abroad)

## Admission

### Requirements

- University entrance qualification (§ 58 LH)
- Successful completion of an English placement test B2 (by the end of the third semester at the latest)

## Unique Features

- Optional international semester, without extending the period of study
- GreenTech specialization or certification available

- The course combines engineering and economics

## Beginning of Studies

- Winter semester, beginning of October

## Application/Admission



## Step into the Future with Aalen University of Applied Sciences!

Practice-oriented, innovative, and research-driven: Aalen University of Applied Sciences currently educates nearly 4,500 students across more than 70 degree programs to become the skilled professionals of tomorrow.

Our hands-on approach bridges theory and practice, allowing you to apply what you learn in state-of-the-art labs, workshops, and our Innovation Center as well as through many student-led initiatives. Through close cooperation with regional businesses – including many global market leaders – students have the opportunity to build strong connections with local companies during their studies. Join us at Aalen University of Applied Sciences and unlock your potential for success!



hs-aalen.de/mbw-en



# Contact

## Questions regarding Visa, Travel, Bursaries

Contact our International Relations Office:  
aaa@hs-aalen.de

## More Information

### Instagram

@maschinenbau.hsaalen

## Dean of Studies



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## Process Design and Management

Study Program Process Engineering und Management  
**Bachelor of Engineering (B.Eng.)**



# Process Design and Management

## Where Technology meets Business

Are you interested in technical solutions in the production environment and wondering about associated business aspects? Then this is the right place for you! **This program offers the perfect preparation for a project engineer, purchaser or consultant.**

**What opportunities await you?** The Process Design and Management degree offers a modern technical focus for a successful business career in the production and manufacturing sector. Highlights: Gain a global perspective with the “International Semester” without extending the duration of your studies. The “Green Technology and Economy” certification provides expertise in energy efficiency, sustainable mobility and resource efficiency.

## Overview

Semester	7	Bachelor Thesis		Studium Generale	Management II	Management II	Technology II or Digital Production II	Further qualification opportunities  <b>Master</b>  Technology Management (M.Eng.)  Industrial Management (M.Eng.)  Leadership in Industrial Sales and Technology (M.Eng.)
	6	Applied Math II Scientific Computing	Industrial and Digital Control Engineering	Project Work	Management I	Management I	Technology I or Digital Production I	
	5	Practical Semester						
	4	Applied Math I / Programming	Industrial and Digital Measurement Technology	Technology I	Management I	Management I	Digital Production I	
	3	Statistics	Electrical and Digital Technology	Production Processes	Construction III	Quality Management	Cost Accounting and Accounting	
	2	Mathematics II	Engineering Mechanics II Dynamics	Strength of Materials I	Construction II	Thermodynamics	Basics of Business Administration	
	1	Mathematics I	Engineering Mechanics I Statics	Materials Science	Construction I	CAD	Managerial & Digital Economics	
<div>30 CP can be achieved per semester, 210 CP in total</div> <div><div><div></div><div></div></div>Regular Module</div> <div><div></div><div></div></div> Elective Module <div><div></div></div> STEM basics of digitalization <div><div></div></div> Modules for the "Green Technology and Economy" qualification programme <div>International semester: elective courses in the 4th, 6th or 7th semester can be completed abroad.</div>								

# Study Program

## Interdisciplinary and Practical Studies

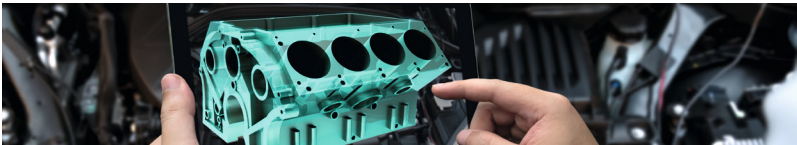
**Why is this a perfect match?** Possibility of specialization through individual focus areas after a comprehensive foundation phase to gain an even better understanding of the control and organization of economic processes!

**1st-3rd semesters:** Technical and economic fundamentals for a comprehensive understanding of complex production methods and company processes.

**4th semester:** Deep-dive into advanced technical topics including initial laboratory and workshop projects.

**5th semester:** (Industry) internship in Germany or abroad.

**6th-7th semester:** Continued specialization selected in the 4th semester and completion of the Bachelor’s thesis.



# Course of Study

## Study Format and Teaching Concept

**The advantage?** The focus is on practice - no dry cramming. The basics are taught in an interactive way and applied business case studies and exercises are carried out. In addition, the technical and economic know-how is put into practice. For example, as part of a (international) semester or internship lasting several months. Beyond the economic focus, students can also work independently in laboratory and workshop projects. Our degree program draws on a variety of exercises and case studies for this purpose. The case studies include annual financial statement analyses, value-oriented management or strategic analyses of large companies such as Daimler or Lufthansa.

## Key Competences

**Excellent preparation for your professional future and for strong career entry and promotion opportunities.** Fundamental engineering know-how paired with an in-depth understanding of the management and organization of business processes in companies.



## Top Career Prospects

As an interdisciplinary graduate with broad technical and business know-how, you will be well-positioned to launch a career in the following areas in particular:

- Purchasing and Quality Management
- Management Consultant
- Project Planning and Control
- Financial Management or Controlling