

Overview

Target Group

Technology enthusiasts with an interest in complex production processes, modern technologies and working in production halls.

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

- Comprehensive engineering education in the field of production environment supplemented by basic commercial training.

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/mbp-en



Contact

Questions regarding Visa, Travel, Bursaries

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

More Information

Instagram

[@maschinenbau.hsaalen](https://www.instagram.com/maschinenbau.hsaalen)

Dean of Studies



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Manufacturing and Process Technology

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



Manufacturing and Process Technology

Where Tradition meets New Technologies

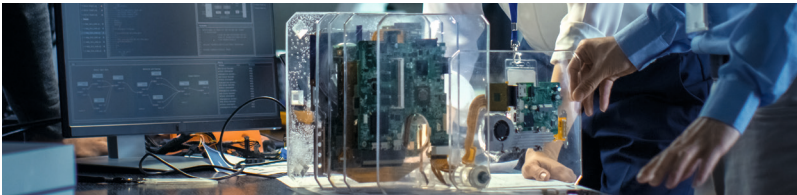
Are you interested in technology and enjoy solving tricky tasks? Then you've come to the right place!
This program offers the perfect preparation for a production technologist or process engineer.

What opportunities await you? The "Manufacturing and Process Technology" degree offers a modern technical focus for engineering career success 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.

Study Program

Study with Heart and Hand in a Practical Way

Why is this a perfect match? After a comprehensive technical foundation course, the opportunity to specialize through lectures that are relevant to individual career success.
1st-3rd semester: Technical fundamentals to build a comprehensive understanding of complex production processes and modern technologies.
4th semester: Deep-dive into advanced technical and digital 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 and applied production processes and technologies are covered in an interactive way during the course. The technical knowledge is also put into practice. For example, as part of a six-month (international) semester or internship. Students also work independently in laboratory and workshop projects and actively research solutions to tricky tasks - also in group work. Our degree program utilizes a large number of laboratories for this purpose. These include the laser laboratory, foundry laboratory and machining laboratory.

Key Competences

Excellent preparation for your professional future and for strong career entry and promotion opportunities.
Fundamental know-how in modern production technologies and processes, supplemented by business economic aspects.



Overview

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|---|---|--------------------------------------|---|--------------------------|------------------|--------------------|--|--|
| Semester | 7 | Bachelor Thesis | | Studium Generale | Technology II | Technology II | Management II or Digital Production II | Further qualification opportunities Master Technology Management (M.Eng.) Product Development and Manufacturing (M.Eng.) Industrial Management (M.Eng.) |
| | 6 | Applied Math II Scientific Computing | Industrial and Digital Control Engineering | Project Work | Technology I | Technology I | Management I or Digital Production I | |
| | 5 | Practical Semester | | | | | | |
| | 4 | Applied Math I / Programming | Industrial and Digital Measurement Technology | Technology I | Technology I | Management I | Digital Production I | |
| | 3 | Statistics | Electrical and Digital Technology | Strength of Materials II | 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 | Production Processes | |
| <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> STEM basics of digitalization <div><div></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> | | | | | | | | |

Top Career Prospects

As a graduate with broad production and process expertise, you will be well-positioned to launch a career in the following areas in particular:

- Industrial Engineering
- Production Planning or Management
- Quality Management and Lean Management
- Process Development
- Production Control