

# At a Glance

## Target Group

The course targets on all persons interested in engineering with polymers and polymer science.

## Number of Semesters and Degree

- 2 semesters of lectures and laboratories
- 1 semester for the master thesis
- International Degree: Master of Science (M.Sc.) in Polymer Technology

## Admission Requirements

- First Academic Degree (B.Eng., B.Sc.) in Mechanical Engineering, Polymer Technology, Polymer Chemistry or similar courses
- Language skills: English B2

## Main Features

- All classes taught in English
- Thesis can be written in English or German
- Intensive studies due to comparatively small class size
- Non-EU students: studying fees 1.500 EUR per semester; there are several exemptions, please consider the checklist

## Application deadline/ Start of lectures

Winter semester:

June 15th (start of lectures in October)

Summer semester:

December 15th (start of lectures in March)

## How to apply

Online application or postal submission to:

Zulassungsamt / Admission Office  
Hochschule Aalen  
Beethovenstraße 1  
73430 Aalen  
Germany

☎ +49 (0) 7361 576-1299

✉ [zulassungsamt@hs-aalen.de](mailto:zulassungsamt@hs-aalen.de)

🌐 [www.hs-aalen.de/bewerbung](http://www.hs-aalen.de/bewerbung)

## The University

Close to working life, innovative and strong in research: At Aalen University, 4,500 students are currently studying in more than 50 bachelor and master courses to become the specialists of tomorrow. The theoretical principles, which the students learn in lectures, can be tested and put to work in state-of-the-art laboratories, workshops or the Innovation-Center right on one of the most attractive campuses in Germany. Through close cooperation with the regional economy, which includes many international market leaders as well as hidden champions, students are given the opportunity to build a network during their studies. Therefore, graduates of Aalen University are equipped with the best chances when starting their professional life.



[www.hs-aalen.de/ptc](http://www.hs-aalen.de/ptc)



# Contact

Student Advisory Service  
Faculty Mechanical Engineering /  
Materials Science

Telefon +49 7361 576- 2720  
[mw.studienberatung@hs-aalen.de](mailto:mw.studienberatung@hs-aalen.de)

Further information

**Website**

[www.hs-aalen.de/ptc](http://www.hs-aalen.de/ptc)

**Instagram**

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

Course Coordinator



**Prof. Dr.-Ing. Iman Taha**



Polymer Technology  
Master of Science (M.Sc.)

# Polymer Technology

Students of Polymer Technology can gain a high level of engineering knowledge through Aalen University. The goal of the Polymer Technology master programme is to provide a well-balanced combination of theory and practical laboratory training in the polymer science and technology field. Since 1969, the Polymer Technology Department of Aalen University has been educating students in Polymer Technology and has shared its scientific expertise in books and publications.

Studying Polymer Technology promises you personally a great career success. By joining an academic institution in Germany, you access one of the leading countries for that technology in the world. So go ahead!

# Programme Content

The scientific educational programme includes Polymer Materials, Polymer Physics, Polymer Testing, Polymer Design and Polymer Processing, Mold Design and CAD/CAM/Simulations lectures and training in laboratories.



# Course Process

## Educational Format and Didactical Concept

The master programme comprises three semesters. Two semesters studies target on the polymer technology related subjects, providing the students thorough knowledge of polymers, their physical properties and applications, polymer testing, how to design polymer products and molds, on polymer processing and related techniques as well as on simulation. One semester is required for the elaboration of the master thesis. The thesis can be written either at Aalen University, at one of the international academic partners institutions or in cooperation with industry.

## Expertise

Our academics and research activities intend the students to achieve expertise in the application of scientific and engineering principles to develop novel material concepts, new polymeric products, production technologies and troubleshooting capabilities related to the use, processing and recycling of polymers.

## After your Degree

The Polymer Technology industry is worldwide vastly growing. Polymers represent the most significant material class for light weight and high-tech applications, as e.g. in

- Aerospace
- Automobile Industry
- Consumer goods
- Medical Application

It strives for advanced and sophisticated products engineered for the demands of the modern world. Consequently, polymer technology expertise is highly demanded. As a graduate with a Master of Science (M.Sc.) in Polymer Technology of Aalen University, you will represent an expert in polymer engineering, well prepared to become a demanded member of staff in the industry or a scientific researcher (PhD).

# Study Course Structure

Semester	WS/SS	Master Thesis					
	SS	Multi Materials Manufacturing*	Polymer Thermal Analysis*	Advanced Process Simulation*	Intercultural Communication	Elective Module	Elective Module
	WS	Polymer Materials	Polymer Testing*	Advanced Polymer Processing - Extrusion*	Polymer Physics and Rheology	Advanced Polymer Processing - Injection Moulding*	Polymer Design and Mould Design
		■ Mandatory Module   ■ Elective Module   *Modules include laboratory					