

# At a Glance

## Target Group

- All engineers with interest in polymer materials and plastics processing.
- Prior knowledge on polymers is not a prerequisite

## Number of Semesters and Degree

- 3 semesters incl. 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 equivalent
- Final grade of your First Academic Degree: at least 2,5
- Language skills: English (B2)

## Main Features

- All classes taught in English
- Thesis can be written in English or German
- Non-EU students: studying fees 1.500 EUR per semester; there are several exceptions, please consider the checklist

## Application deadline

Applications can be submitted until the first Friday after the start of lectures, at: [www.hs-aalen.de/application](http://www.hs-aalen.de/application)

After registering in our application portal, please enter the following:  
Degree program: **Polymer Technology**

## Start of lectures

- Winter semester: start in October
- Summer semester: start in March

## The University

Step into the future with Aalen University! With a vibrant community of over 4,500 students, we offer more than 50 bachelor's and master's programs designed to shape the leaders of tomorrow. Our hands-on approach bridges theory and practice, allowing you to apply what you learn in cutting-edge labs, workshops, and our Innovation Center—all nestled on one of Germany's most picturesque campuses.

At Aalen, we're not just about academics; we're about preparing you for the real world. Through close ties with regional industry leaders, including both international giants and hidden champions, our students have unique networking opportunities that pave the way for successful careers. Join us at Aalen University and unlock your potential for success!



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



# Contact

Student Advisory Service  
Faculty Mechanical Engineering /  
Materials Science

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Course Coordinator



**Prof. Dr. rer. nat. Tobias Walcher**

Further information

**Website**

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

**Instagram**

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



**Polymer Technology**  
**Master of Science (M.Sc.)**

 **Aalen University**  
of Applied Sciences

# Polymer Technology

Discover the intersection of engineering excellence and sustainability with Aalen University's first international master program: Polymer Technology. Designed to offer students a comprehensive blend of theoretical insights and hands-on laboratory experience, our master's program in Polymer Technology aims to equip you with a solid foundation in the science and technology of polymers.

At Aalen University, students of Polymer Technology can expect to delve deep into the intricacies of this field, gaining invaluable knowledge on polymer materials, plastics engineering and processing with the necessary link to environmental challenges. Our program strikes a perfect balance between theory and practical training, ensuring that you graduate well-prepared to tackle real-world challenges in polymer science and technology



The program provides opportunities for elective courses, allowing students to customize their educational experience to their interests and career goals. Possible elective courses are:

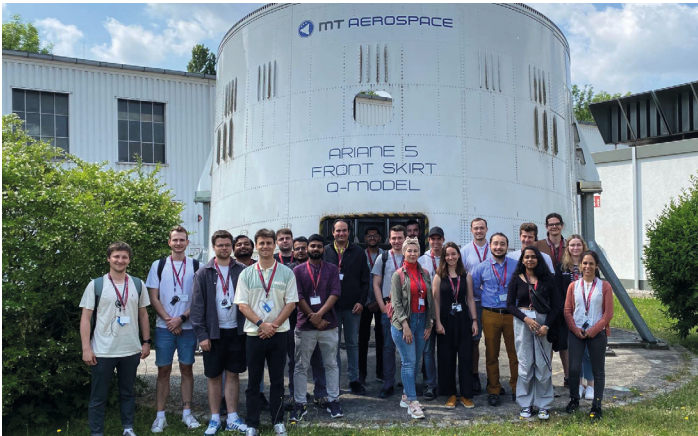
- Advanced Mould Design
- Modelling and Control
- Scientific Project
- Polymers in Application
- Composites



# 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 |                           |  |                              |   |                                 |

# Course Process



## Master Thesis

The master thesis duration is one semester, during which students have the flexibility to select their own topics. These topics, always on the cutting edge of new developments, can encompass a wide range of areas, including innovative material development, advanced processing, material and process simulation, recycling, and more. The thesis allows for a scientific and hands-on learning experience tailored to individual interests and career goals.

You are very welcome to come over

