

Polymer Engineering Master of Science

Entry requirements:

A qualified bachelor's degree or diploma in polymer engineering or plastics technology with an overall grade of 2.5 or better and at least 180 CP.

- The faculty offers qualification courses for applicants with bachelor's degrees or diplomas in other engineering subjects (e.g. mechanical engineering, mechatronics, electrical engineering). Participation in and successful completion of these qualification courses may be defined by the Examination Board as additional courses to the regular master's programme for those applicants.

- In individual cases, applicants with a grade of better than 3.0 and an ECTS grade of "C" or better may be admitted on application. The prerequisite for this is that candidates show a clear affinity to the field of study, in particular through good performance in basic subjects.

- English language skills are recommended.

For detailed and binding information, please refer to the BBPO.

1st semester

Statistical Methods/AI, 5 CP

Design of Extrusion Processes, 10 CP

Material Cycles, 5 CP

Advanced Plastics Materials Science, 5 CP

Polymer Engineering Core Elective, 5 CP

2nd semester

Design of Injection Molds, 10 CP

Engineering Research Project, 5 CP

Polymer Engineering Core Elective or Research Project, 5 CP

Polymer Engineering Core Elective or Research Project, 5 CP

Interdisciplinary Challenges of Social Developments, 5 CP

3rd semester

Ecological Assessment of Technical Products, 5 CP

Reactive Plastics Processing, 5 CP

Polymer Engineering Core Elective or Research Project, 5 CP

Polymer Engineering Core Elective or Research Project, 5 CP

Corporate Organisation, 5 CP

Economics and Sustainability in Enterprises Core Elective, 5 CP

4th semester

Master's Seminar on Scientific Publishing, 5 CP

Master's Thesis with Colloquium, 25 CP

Career Prospects:

The master's degree

- qualifies graduates e.g. for positions in plastics production and processing in
 - research and development,
 - design and production,
 - design and components development,
 - management positions

in the following industries (selection)

- plastics manufacturing, processing and recycling,
- machine and tool construction,
- construction and building components,
- aerospace technology, automotive industry,
- medical technology, electrical and electronics industry,
- sports, leisure and consumer goods,
- sustainable packaging,

- qualifies graduates for higher civil service positions and

- provides an opportunity to pursue a doctorate.

The Diploma Supplement, which assigns an ECTS grade from A to E to the grade, simplifies the recognition of the degree abroad.

CP: The size of the module blocks corresponds to the average amount of studying and learning required. Credit points (CP) are awarded for modules completed - usually 30 CP per semester.

Colour legend: standard module final thesis practical phase core elective, specialisations interdisciplinary qualifications