

SPACE FOR POLYMER TECHNOLOGIES & SCIENCE (PTS)



Master's Degree Program



JOHANNES KEPLER
UNIVERSITY LINZ

Polymer Technologies & Science.

As part of a broad, comprehensive program offered in polymer engineering at the JKU, the Master's degree program 'Polymer Technologies and Science (PTS)' provides students with an advanced, science-based curriculum that covers key areas in polymer product manufacturing. The program expands on the material covered in the undergraduate degree program Polymer Engineering (Kunststofftechnik) at the JKU. Students can take advantage of flexible options to specialize in a variety of areas such as materials science, polymer processing, or polymer product design in combination with experimental techniques, modeling and simulation. Graduates can pursue careers ranging in research and development to production, marketing, and to executive management positions.

YOUR BENEFITS

Unique multi-disciplinary program

Attractive infrastructure, state-of-the-art equipment

Flexible options for specialization

First class conditions for research

Excellent career prospects

To The Point



ANGELA HUSZAR, BSc
Master's student in Polymer Technologies and Science (PTS)

'The Polymer Technology program was challenging for me at first as I attended a business-oriented high school. There is learning curve for everything, however, at the JKU I feel I not only benefited from an outstanding academic degree program, I also made close friendships that will last a lifetime.'



MICHAEL MÜLLER, BSc
Master's student in Polymer Technologies and Science (PTS)

'For me, plastics engineering has opened up a vast world of discovery on a scale that I could not have imagined before. Students have access to the latest technology and there is a strong emphasis on hands-on education as well as theory. I am thoroughly enjoying my studies at JKU.'

Educational Objectives, Career Prospects.

Educational Objectives

The PTS Master's degree program aims at conveying the following competencies and skills:

- Advanced knowledge in key subject fields of polymer engineering and science
- Special in-depth expertise by being able to select from an advanced elective track of optional courses and choosing a thesis topic in any of the following fields:
Polymer testing, characterization, and material structure property performance relationships; polymer processing and conversion technologies, including theoretical aspects and practical laboratory work; polymer product engineering and design: advanced methods of experimentation and computation, modeling and simulation.
- Expertise in providing solutions for polymer engineering related problems and assignments in an industrial environment, requiring multidisciplinary knowledge of the product creation chain
- Methodological competencies and expertise in setting up, performing and presenting polymer engineering and science driven and/or market oriented research projects

Job Opportunities

Graduates of the PTS program are highly sought-after specialists who can pursue a variety of professions at industrial companies, businesses, and other institutions:

- The plastics industry (plastics manufacturing and processors, supplying plastics machinery and products)
- Industrial companies that utilize plastic and polymer products, including the packaging industry, construction branch, automotive industry, electrical equipment and electronics industry, the sports and recreation sector, aerospace, energy production, medical products and devices, etc.
- Agencies and regulatory trade offices that oversee polymeric materials and products (such as certification agencies, ministries, patent offices, etc.)
- Polymer-based products and technologies are vital to the economy and their innovative potential is limitless. A PTS Master's degree gives students a strong background to:
 - Pursue a position at an academic, public, or private research facility (possibly in combination with a Ph.D. degree program, in Austria or abroad)
 - Create a start-up company in manufacturing, as a service provider, or as an expert consultant

Master's Degree Program.

Subject Areas

SEMESTER	1	2	3	4
Polymeric Materials and Testing	4,5	8,3	4	-
Polymer Product Engineering	6	9	1,5	-
Polymer Processing	7,5	10	-	-
Elective Track	9,5	3	17,7	-
Free electives	2,5	-	6,5	3
Masters Thesis	-	-	-	25
Master's Examination	-	-	-	2
ECTS CREDITS: 120	30	30,3	29,7	30

PROGRAM:
Master's Degree PTS

ACADEMIC DEGREE:
DI (equivalent to MSc)

PROGRAM DURATION:
4 semesters

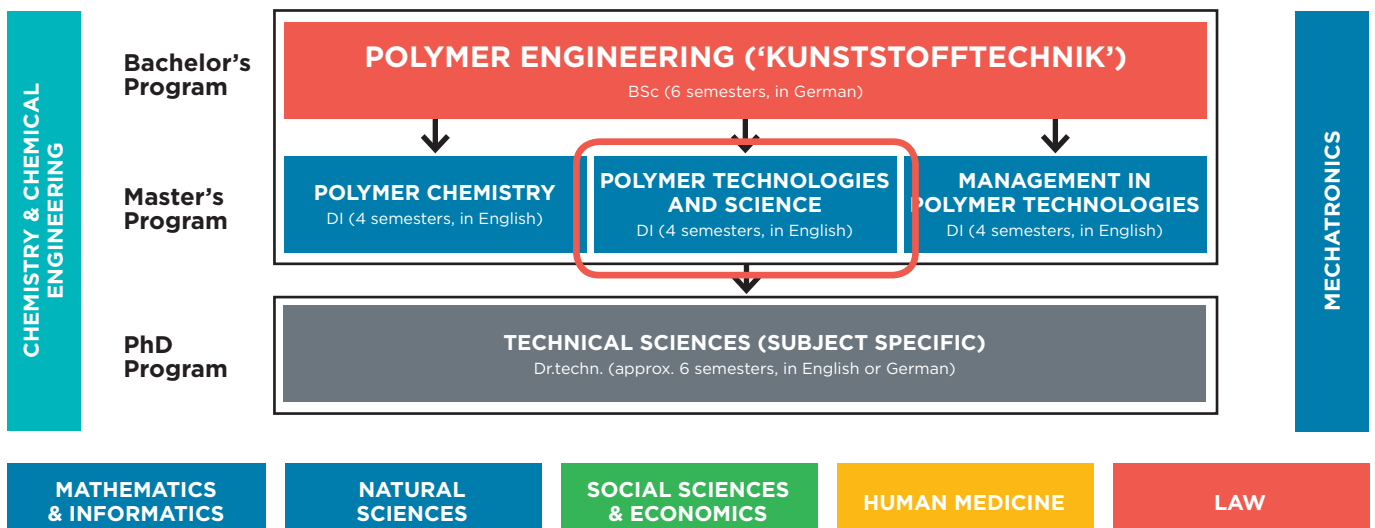
CREDITS:
120 ECTS

PROGRAM LANGUAGE:
English*

See: jku.at/studienrichtung, the curriculum, or visit the Student Information and Advising Services (SIBS) for detailed information.

* Optional elective courses held partly in German

JKU Polymer Program



Polymer Technologies & Science (PTS) is a part of the JKU's 'Fields of Excellence'.

Admission Requirements, Academic Advising.

Admission Requirements

- Applicants who have completed a Bachelor's degree program in Polymer Engineering ('Kunststofftechnik') at the JKU will be admitted to the Master's degree program without any additional prerequisites.
- Graduates of other universities or post-secondary institutions may be admitted to the program providing their degree is equivalent in content and scope to the JKU Bachelor's degree program in 'Polymer Engineering' ('Kunststofftechnik').
- Applicants admitted to the program and holding an undergraduate degree in a related field may be required to complete additional coursework of up to 40 ECTS credits during the Master's degree program.

See: jku.at/studienrichtung or visit the Student Information and Advising Services (SIBS) for detailed information about admission requirements.

Post-Graduate Program/ Double Degree Options

- PhD Program/Doctoral Program in Technical Sciences
- DI/MSc Management in Polymer Technologies
- DI/MSc Polymer Chemistry

See: lit.jku.at for further information.

Academic Advising

STUDENT INFORMATION AND ADVISING SERVICES (SIBS)

Lecture Tract, Hall A
+43 732 2468 3450
studium@jku.at
jku.at/sibs

AUSTRIAN STUDENT UNION LINZ - OFFICE OF ACADEMIC ADVISING

Main Campus Library (ground floor)
and the Lecture Tract
+43 732 2468 1122
studienberatung@oeh.jku.at
oeh.jku.at

ADMISSIONS OFFICE

Location: Bank Building,
1st Floor Rm. 113 A/B
+43 732 2468 3180, -3181, -3271
admission@jku.at
jku.at/admission

CONTACT

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