

***CO-OP PROGRAMME > INDUSTRY
> TECHNOLOGY > BUSINESS >
INDUSTRIAL ENGINEERING***

The co-op bachelor degree programme is one of a kind in Austria, demonstrating collaboration between academia and business at the highest level. After a one-year grounding, the relevant theory and practice are provided alternately at FH JOANNEUM and the training company. During their first year, students explore the scientific, technological and organisational elements of modern production processes. From the very start, they get a taste of the fascination and complexity of modern industrial production processes when designing a concept for a concrete manufacturing plant in two semester projects.

From the second year, students start to apply what they have learnt in practice: they support their training company in developing and optimising methods, processes and products. They also refine their communication skills and expand their intercultural skills during a semester or internship abroad. During the third year, we offer a chance to specialise in Process Engineering or Manufacturing Technology. A production automation project and two bachelor's theses complete the course.

“The Production Technology and Organisation programme offers a chance to understand and study a company in all its facets and to gain valuable work experience. The combination of theory and practical application has made me a passionate engineer.”

DI (FH) David Schneider, Graduate

FACTS

- Bachelor of Science in Engineering (BSc)
- Co-op programme
- 6 semesters / 180 ECTS
- Language of instruction: German
- 30 places per year
- Head of Degree Programme:
FH-Prof. DI Dr. Georg Wagner
- FH JOANNEUM Graz

www.fh-joanneum.at/pto

CAREER PROSPECTS

Companies these days need engineers with a broad range of practical knowledge about all of the processes involved in production. Our graduates are qualified for assistant functions, project management and senior positions in production technology and automated manufacturing, quality management and logistics, production planning and control as well as product and process development and design. After completing their bachelor degree, students may also choose to enrol on the master degree programme in Engineering and Production Management at FH JOANNEUM.

“Looking back I can say that studying Production Technology and Organisation was the right decision. The constant contact with colleagues and lecturers from the business world provided me with a high level of practical expertise.”

DI (FH) Eva Volkheimer, Graduate

CURRICULUM: 180 ECTS (30 ECTS per semester)

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester
Introduction to Physics and Mechanics 5 ECTS	Mathematics 1 5 ECTS	Mathematics 2 5 ECTS	Hydrodynamics and Fluid Mechanics 5 ECTS	Thermodynamics and Heat Transfer 5 ECTS	Production Technology 4 (PE or ME) 5 ECTS
Materials Science 5 ECTS	Mechanics of Materials 5 ECTS	Dynamics 5 ECTS	Chemistry 5 ECTS	Mechatronics 2 5 ECTS	Production Automation (PE or ME) 5 ECTS
Introduction to Informatics and Electronics 5 ECTS	Production Technology 2 5 ECTS	Production Technology 3 10 ECTS	Mechatronics 1 5 ECTS	Process Engineering 5 ECTS	Production Organisation 4 5 ECTS
Production Technology 1 5 ECTS	Machine Elements and Design 5 ECTS		Materials Handling Engineering 5 ECTS	Production Organisation 3 5 ECTS	Bachelor's Thesis 10 ECTS
Production Technology Project 10 ECTS	Production Organisation Project 10 ECTS	Production Organisation 1 5 ECTS	Production Organisation 2 5 ECTS	Production Planning and Control 5 ECTS	
		Work Term 1 5 ECTS	Work Term 2 5 ECTS	Work Term 3 5 ECTS	Work Term 4 5 ECTS
Scientific Foundations	Scientific Foundations	Organisation	Practice and Key Skills		