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st.pölten

Digital Innovation and Research

Computer Science | Research | Innovation

MASTER | DUAL | ENGLISH

Digital Innovation and Research

Society's present challenges call for innovation. Digitalisation and fact-based research are key to this development. We offer a highly qualified education at this interface of applied research, innovation and digitalisation with a focus on topics such as artificial intelligence, governance and information security. This study programme enables you to make an important contribution to the realisation of digital transformation.

Your Studies

The master degree programme is made up of 3 important pillars: innovation, research and digitalisation.

- **Innovation**
  The study programme teaches innovation methods and processes, entrepreneurship and methods of storytelling.

- **Research**
  In addition to scientific methods, you learn how to publish your findings correctly or prepare research proposals. Scientific writing and presenting are key qualifications of researchers.

- **Digitalisation**
  The course contents include cutting-edge topics such as artificial intelligence, governance and data protection.

The subjects are taught in small student groups by international lecturers from the field of research. In addition, students work on and further develop a research topic or project throughout their studies.

Your Career

Graduates of this international master degree programme acquire competences at the interface of digitalisation, innovation and research, which provides them with the best possible preparation for the job market.

SMEs (Small and Medium-Sized Enterprises)
- √ **Identify** research and innovation possibilities in the area of computer science in your company.
- √ **Determine** concrete demand for research.
- √ **Establish** adequate cooperation projects with higher education institutions and non-university-based research centres.

Higher Education Institutions and Research Centres
- √ You are able to prepare research projects in such a way that their findings lead to product, process or service innovations at the partner companies.
- √ You are able to actively participate in research projects and work on your PhD thesis at a higher education institution.

Research Divisions of Large Companies
- √ You are equipped with practical experience in research projects.
- √ You are able to quickly acquire the necessary skills in various fields (e.g. support in preparing proposals, project implementation as a junior researcher, reporting and controlling).

Academic degree
Master of Science in
Engineering (MSc)

Watch Video
fhstp.ac.at/mir

Tuition Fees
363.36 € per semester[1]
+ Student Union Fee

How to Apply
fhstp.ac.at/guide

Study Places/Year: 12

**Full-Time
English**

[1] for students from third countries: EUR 1,500, performance-based tuition fee waivers are available

What Makes Your Studies Unique

Dual learning

The design as a dual-system programme offers you not only a comprehensive theoretical education but also participation in research projects at companies, non-university research centres, universities of applied sciences and universities. An education at the highest scientific level in combination with a strong practical orientation provides you with excellent opportunities for development.
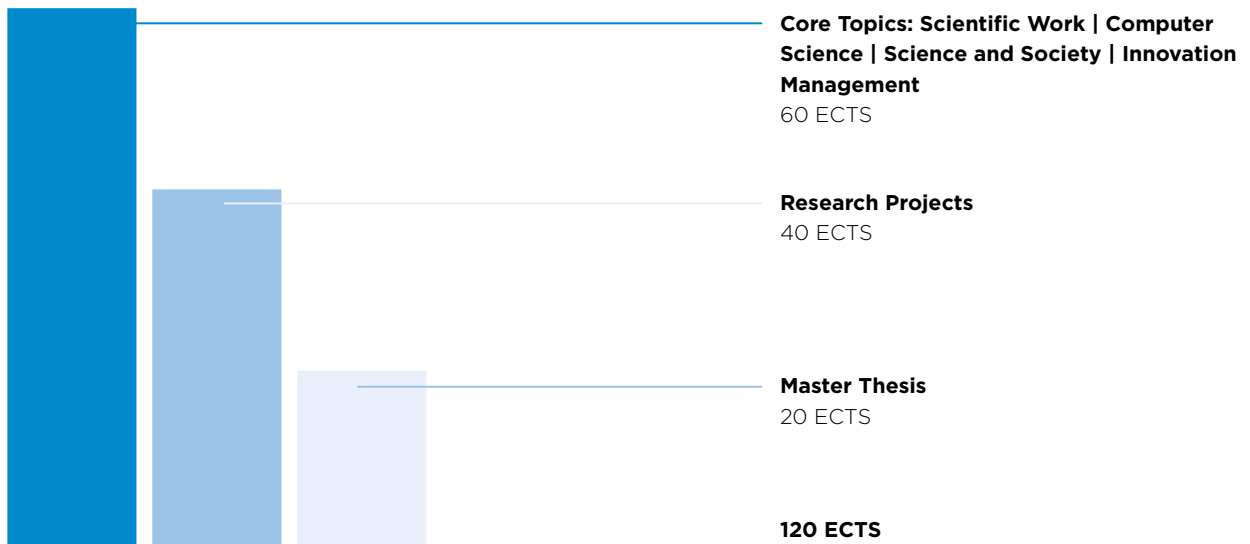
Modern infrastructure

St. Pölten UAS has state-of-the-art laboratories as well as a deep learning environment. You can use the entire infrastructure around the clock, even off campus.

Focus on the professional field

The programme conveys all necessary competences for various career opportunities. Apart from in-depth knowledge in the field of computer science, it places particular emphasis on the writing of research proposals and the processing of research results. Under the guidance of experienced professors, you will gain all competences necessary for the writing of scientific publications.

Linguistic competence

The fact that the teaching language is English promotes your expressive skills. The writing of research proposals and publications in English prepares you for a career in the national and international research landscape.

Core Topics: Scientific Work | Computer Science | Science and Society | Innovation Management
60 ECTS

Research Projects
40 ECTS

Master Thesis
20 ECTS

120 ECTS

Curriculum

1ˢᵗ year of studies

1ˢᵗ semester	ECTS
Foundations of Research & Ethics	5
IT Governance	5
Entrepreneurship	5
Design Thinking	5
Project and Mentoring I	10

2ⁿᵈ Semester	ECTS
Trends in Research	5
Artificial Intelligence	5
Innovation Management and Product Development	5
Elective I	5
Project and Mentoring II	10

2ⁿᵈ year of studies

3ʳᵈ semester	ECTS
Writing of Research Proposals	5
IT Protection	5
Data Driven Innovation	5
Elective II	5
Project and Mentoring III	10

4ᵗʰ Semester	ECTS
Project and Mentoring IV	10
Master Thesis	20

Current course schedule
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ECTS: European Credit Transfer System – measure for the overall workload an average student has in order to successfully complete a course. One credit (credit point) represents 25 study hours (including attendance, self-study, exams, etc.).

St. **Campus**
Pölten