

WE ARE EUROPEAN UNIVERSITY

PART-TIME | BILINGUAL | 4 SEMESTERS

# MASTER Digital Healthcare

Design & Prototype Healthcare Interfaces | Collect & Analyse Health and Fitness Data | Assess & Evaluate Patient Engagement

# **Digital Healthcare**

The aim of the study programme is the interdisciplinary design of technically informed innovations in the healthcare sector. In a joint process, health and technology experts acquire methods and technical tools which enable them to design and develop concrete solutions in the areas of prevention, diagnosis, therapy, and care. The focus is on the practical benefits for patients, relatives and, above all, medical professionals.

### **Your Studies**

The programme is highly customisable. A particular focus is on the acquisition of activity competencies in the collection and processing of health data, the design and prototyping of healthcare interfaces, and the evidence-based evaluation of patient engagement. Students work on a digital healthcare project. Exemplary solutions include mixed-reality visualisations in radiology or sensor-supported systems for gait rehabilitation.

#### **Basic skills**

Students with a technical background learn the basics in the field of healthcare, while students from the healthcare area acquire basic technical knowledge.

### Choose between specialisations

technical solutions for healthcare

- Health Technology Development: Technical skills for the design and development of
- Health Technology Assessment: Technical skills for the evidence-based evaluation of digital technologies/media in prevention, diagnosis, treatment, and care.

Study projects: <a href="mailto:showreel.mdh.fhstp.ac.at">showreel.mdh.fhstp.ac.at</a>

### **Your Career**

Our graduates are experts in the interdisciplinary design, implementation, evaluation, and development of healthcare scenarios with the aid of digital technologies. Their expertise is used throughout the entire healthcare sector, e.g., by social insurance companies, hospitals as well as by industrial and research institutions and IT-driven healthcare companies.

### Possible professions

- Researcher in digital technologies & healthcare
- Regulatory affairs manager
- Medical engineer
- Developer & application specialist
- Medical device advisor
- Clinical sales specialist
- Project manager





Academic Degree Master of Science in Engineering (MSc)



**Duration of Studies** 4 semesters

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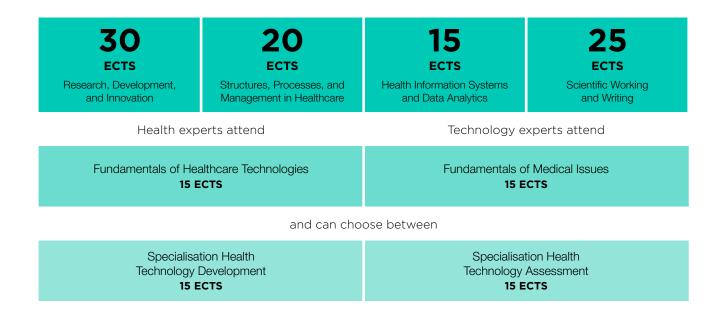
Study Places/Year

€

**Tuition Fees** 363.36 € per semester + Students' Union fee



## **What Makes Your Studies Unique**





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### Curriculum

#### 1<sup>st</sup> year of studies

1 <sup>st</sup> semester	ECTS
Digital Healthcare Project: Ideation and Management	6
Innovation in Healthcare	2
User-Centred Design and Experience	2
Healthcare System and Management	2
Database Systems and Modelling	3
Process Modelling and System Design	2
Research Methodology	3
Fundamentals of Healthcare Technologies <sup>1</sup>	
Media Technology and Programming	5
Fundamentals of Medical Issues <sup>1</sup>	
Anatomy and Physiology	5
Specialisation Health Technology Development <sup>2</sup>	
Web Programming and Technologies	5
Specialisation Health Technology Assessment <sup>2</sup>	
Media-Assisted Health Pedagogics	5

2 <sup>nd</sup> semester	ECTS
Digital Healthcare Project: Prototyping	6
Health Law and Patient Rights	2
Presentation and Dissemination	2
Measurement and Analytics in Healthcare	3
Health IT Systems	2
Fundamentals of Healthcare Technologies <sup>1</sup>	
Applied AI in Healthcare	4
Augmented and Virtual Reality in Healthcare	2
Data Visualisation in Healthcare	4
Fundamentals of Medical Issues <sup>1</sup>	
Pathology	4
Interprofessionalism in Primary Healthcare	2
Prevention and Rehabilitation	4
Specialisation Health Technology Development <sup>2</sup>	
Sensor and Feedback Systems	5
Specialisation Health Technology Assessment <sup>2</sup>	
Applied Measurement and Analytics	5

#### 2<sup>nd</sup> year of studies

3 <sup>rd</sup> semester	ECTS
Digital Healthcare Project Evaluation	10
Personalised Medicine and Telecare	2
Public Health and Health Behaviour	3
Applied Statistics and Data Analytics	4
Cyber Resilience and IT Security	2
Electronic Health Records	2
Emerging Health Technologies	2
Specialisation Health Technology Development <sup>2</sup>	
Scenarios in Health Technology Development	5
Specialisation Health Technology Assessment <sup>2</sup>	
Scenarios in Health Technology Assessment	5

4 <sup>th</sup> semester	ECTS
Master Thesis and Master Seminar	23
Master Exam	2
Entrepreneurship in Digital Health	2
Window of Opportunity	2
Quality Management in Healthcare	1

Details and information about the admission procedure



<sup>1</sup> Acquisition of basic knowledge in the other focus area: Students with a technical background acquire fundamentals in medical issues, while students with a healthcare background attend courses on fundamentals in healthcare technology.

<sup>2</sup> Students can choose freely between the two specialisations.

ECTS: European Credit Transfer System – measuring unit for the overall effort that it takes an average student to positively complete a course. One credit point equals a workload of 25 hours.

### Stay up to date on social media!

Instagram: instagram.com/fhstp

J Tiktok: <u>tiktok.com/@fhstp</u>

in LinkedIn: <u>linkedin.com/school/fhstp</u>



### Information & Contact Campus and Study Center (CSC) | T: +43 2742 313 228-333 | E: csc@fhstp.ac.at | I: fhstp.ac.at

### **Diversity at the Campus St. Pölten**

Inclusion, gender equality, and diversity are important to us. Our campus can be accessed barrier-free. Please contact us in due time so that we can take your personal needs into account.