



 **Location:** Campus Klagenfurt  
Primoschgasse 8-10, 9020 Klagenfurt


 **Duration:** 4 semesters

 **Schedule:**  
work friendly, schedule to prior agreement

 **Academic Degree:**  
Master of Science in Engineering (MSc)

 **ECTS Credits:** 120

 **Language:** English

 **Study places per year:** 20



The Master degree study program 'Health Care IT' addresses two important components that will fundamentally and sustainably shape the future of the current health system. This is particularly the use of artificial intelligence, which can support the process of assessing a diagnosis and the evaluation of imaging data, and it may also affect many other sectors that we are not even thinking about at the moment. Another important point that will affect the current health system is the aging of the population as a result of demographic change.

## COURSE INFORMATION

This master degree program focuses on these technical aspects of Health Care IT, by providing a specific education in deep learning and clinical data analysis as well as in 3D printing and robotics. Active and Assisted Living is another core element of the program that enables students to face the future challenges of the aging society today. Additional to theoretical input, students receive hands-on training in specialized laboratories. Small groups, personal support and mentoring, and an open door policy for all professors is a top priority. Since internationalization is an important aspect of modern education, students are encouraged to go for an internship abroad and supported in joint projects with our research partners.

## JOBS AND CAREERS

The Master of Science "Health Care IT" degree program is designed to educate and train highly qualified specialists in the areas of new health technologies and data intelligence. Graduates have a therefore a wide spectrum of excellent and exciting career opportunities in fields such as:

- Research and Development
- Hospital Information Technology
- Software Development and Consulting
- Active and Assisted Living
- Biomedical Engineering / Medical Device Development
- Medical Image Processing

# CURRICULUM

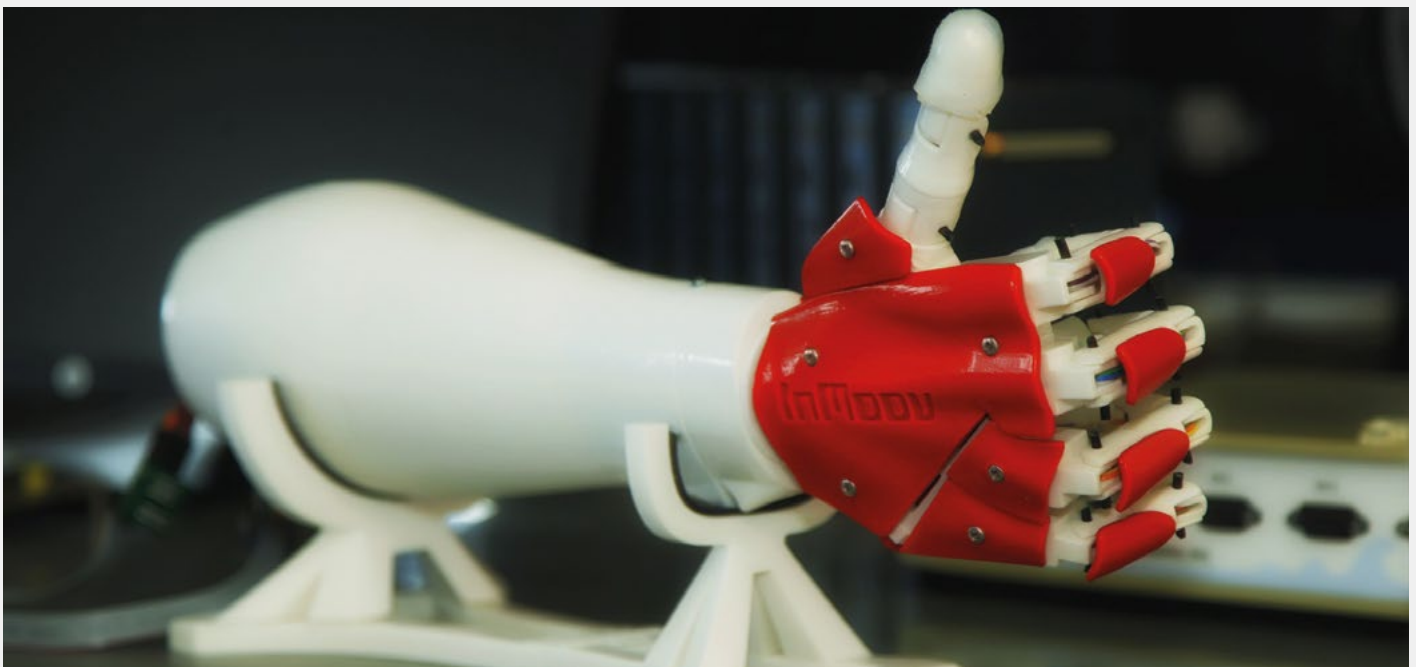
1 <sup>st</sup> Semester	SCH	ECTS
Ambient Assisted Living 1	3	5
Introduction to Machine Learning	3,5	5
Applied Medical Signal Analysis	3	5
Academic Skills Sem	3	5
Statistics	3,5	5
Project (I) Prerequisites and Project Domains	3	5
<b>Total</b>	<b>19</b>	<b>30</b>

3 <sup>rd</sup> Semester	SCH	ECTS
Studies in Biomedical Engineering	3	5
Artificial Neural Networks & Deep Learning	3,5	5
Artificial intelligence in Clinical Imaging	3	5
Entrepreneurship	3	5
Neuroscience	2	5
Project (III) Practical Implementation	3	5
<b>Total</b>	<b>17,5</b>	<b>30</b>

2 <sup>nd</sup> Semester	SCH	ECTS
Ambient Assisted Living 2	3	5
Artificial Neural Networks & Deep Learning (I)	3,5	5
Applied Medical Image Analysis	3	5
Augmented Visualization in Medicine	3	5
Smart Medical Production and Robotics	3	5
Project (II) Frameworks and Concept Study	3	5
<b>Total</b>	<b>18,5</b>	<b>30</b>

4 <sup>th</sup> Semester	SCH	ECTS
Master Thesis	0	25
Master Seminar	2	2
Master Exam	0	3
<b>Total</b>	<b>2</b>	<b>30</b>
<b>Total Sum</b>	<b>57</b>	<b>120</b>

SWS = Semester Wochen Stunden  
ECTS = European Credit Transfer System



## 📅 DATES

**Start:** October 2022

**Study Info Lounge:** always on the second Tuesday of the month from 2 p.m. to 6 p.m. - ONLINE

**FH Days and information events:**

all dates at [www.fh-kaernten.at/fhday](http://www.fh-kaernten.at/fhday)

## 💶 COSTS

**Tuition fee:** € 363,36 per semester

**Student Union Fee:** around € 20, annual adjustment

## ✉ CONTACT

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**W:** [www.cuas.at/hcit](http://www.cuas.at/hcit)

