



NEW


APPLIED DATA SCIENCE


MASTER | WORK-FRIENDLY




 **Location:** Campus Villach
Europastraße 4, 9524 Villach


 **Duration:** 4 semesters

 **Schedule:**
Work friendly

 **Tuition Fee:** € 363,36 per semester +
Student Union Fee

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

 **ECTS Credits:** 120

 **Language:** English

 **Study places per year:** 16

The continuing trend towards the digitalization of work processes and the immense amount of data to be processed are subjects of current business practice. Companies have collected large amounts of data in recent years and are now faced with the challenge of exploiting these data collections and generating added value for their business areas. They are looking for qualified data scientists who can generate relevant information from large amounts of data and derive recommendations from the processed data.

A data scientist is expected to be familiar with the entire data value chain. Therefore, graduates of the Master of Science degree program have a practical as well as theoretical understanding in all of the following areas:

- Data acquisition
- Data transmission
- Data storage
- Data evaluation
- Data visualization
- Legal and ethical frameworks

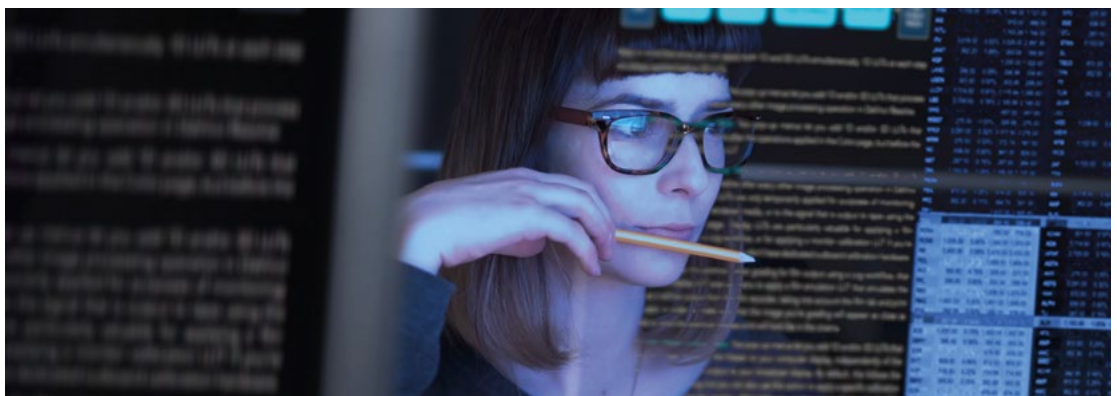
Moreover, graduates can use their acquired professional and methodological competence to pursue a further scientific specialization in the form of a PhD at a technical university.

JOBS AND CAREERS

Graduates of the Master of Science degree program "Applied Data Science" are highly educated specialists with exciting career opportunities in different fields of work. The leading employers for data scientists are typically from the following areas:

- Public and private research institutions
- Banks
- Manufacturers
- Large retailers
- E-commerce companies
- Internet service providers
- Public and private transport companies
- Marketing departments/agencies

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CURRICULUM

1 st Semester	SCH	ECTS
Information and Probability Theory	3-5	5
Statistics	3-5	5
Data Source & Data Quality	3-5	5
Introduction to Machine Learning	3-5	5
Unsupervised Learning	3-5	5
Project I: Prerequisites and Project Domains	3-5	5
Total	21	30

3 rd Semester	SCH	ECTS
Data Architecture & Database Technologies II	3-5	5
Artificial Neural Networks & Deep Learning II	3-5	5
Advanced Topics	3-5	5
Data Visualization II	3-5	5
Academic Skills	3	5
Project III: Practical Implementation	2	5
Total	19	30

2 nd Semester	SCH	ECTS
Data Architecture & Database Technologies I	3-5	5
Artificial Neural Networks & Deep Learning I	3-5	5
Data Engineering	3-5	5
Data Visualization I	3-5	5
Supervised Learning	3-5	5
Project II: Frameworks and Concept Study	3-5	5
Total	21	30

4 th Semester	SCH	ECTS
Data Privacy Ethics	3	5
Master Thesis		20
Master Seminar	2	2
Master Exam		3
Total	5	30
Total Sum	66	120

SCH = Semester Credit Hour
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

COSTS

Tuition fee: € 363.36 per semester

Student Union Fee: around € 20, annual adjustment

CONTACT

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