APPLIED DATA

APPLIED DATA SCIENCE

MASTER | WORK-FRIENDLY

STUDY & WORK

Location: Campus Villach
Europastraße 4, 9524 Villach

Duration: 4 semesters

Schedule:
Schedule: Wed + Thu from 4.50 pm, Fri from 1:30 pm, 2 Sat/month + 5 working days

Academic Degree:
Master of Science in Engineering (MSc)

ECTS Credits: 120

Language: English

Study places per year: 16

Tuition Fee: € 363.36 per semester + Student Union Fee

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 quantities 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.

Data Scientists are 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:

- Acquistion
- Transmission
- Storage
- Evaluation
- 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. Typical employers for data scientists are:

- 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

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

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

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

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

ECTS = European Credit Transfer System

DATES

Start: 1 October 2024

Study guidance:
info@fh-kaernten.at | +43 5 90500 7700

FH Days and information events:
all dates atwww.fh-kaernten.at/study-guidance

€ COSTS

Tuition fee: € 363.36 per semester

Student Union Fee: around € 22, annual adjustment

CONTACT

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