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|  Location: Campus Villach Europastraße 4, 9524 Villach |  Academic Degree: Master of Science in Engineering (MSc) |
|  Duration: 4 semesters |  ECTS Credits: 120 |
|  Schedule: Schedule: Wed + Thu from 4.50 pm, Fri from 1:30 pm, 2 Sat/month + 5 working days |  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:

- Acquisition
- Transmission
- Storage
- Evaluation
- Visualization
- Legal and ethical frameworks

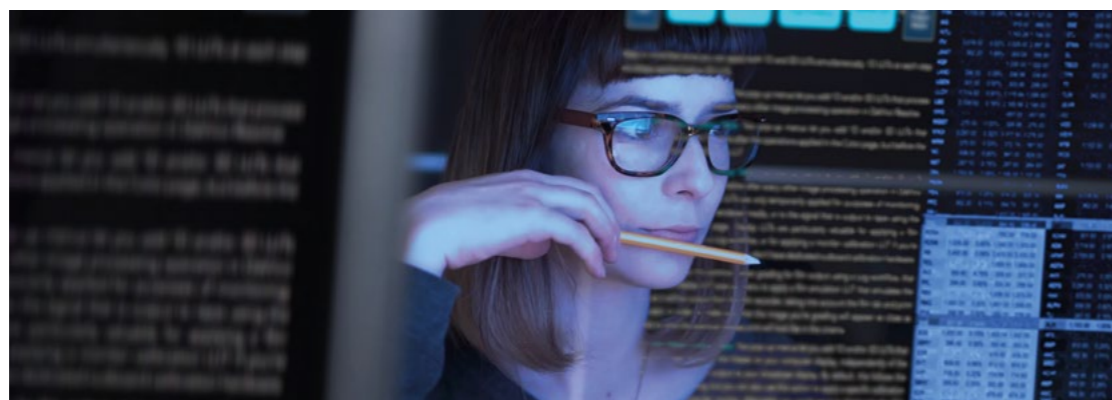
Moreover, graduates can use their acquired professional and methodological competence to pursue a further scientific specialization in the form of a PhD at a technical university.

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:

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

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CURRICULUM

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

| 3 rd 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 |

| 2 nd 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 |

| 4 th 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 at www.fh-kaernten.at/study-guidance

COSTS

Tuition fee: € 363.36 per semester

Student Union Fee: around € 22, annual adjustment

CONTACT

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