

# EXPEDITION

K N O W L E D G E

Learning is a journey to a new world, an adventure, an expedition.

The FH Kufstein Tirol accompanies its students on this expedition and helps them to reach the highest summits.

You have to do the walking part **yourself**.

## DATA SCIENCE & INTELLIGENT ANALYTICS

SEMESTER	1	2	3	4
ECTS	ECTS	ECTS	ECTS	ECTS

COURSE TITLE		1	2	3	4
SOFTWARE DEVELOPMENT, MACHINE LEARNING & DATA ENGINEERING	Data Engineering & Lab	9			
	Software Development & Lab I, II	8.5	8.5		
	Statistical Learning & Lab I, II	8.5	8.5		
	Machine Learning & Deep Learning		10		
	Big Data Processing			4	
	No-Code & Low-Code Analysis Platforms			4	
	Data Visualization & Visual Analytics			4	
	Artificial Intelligence			4	
	Trends in Data Science				3
MANAGEMENT	Leadership, Team & Project Management	2			
	Systemic Innovation	2			
	Data Science for Business & Commerce			4	
	Data Science for Engineering & Natural Sciences			4	
	Ethics, Compliance & Legal Regulations				3
INTL.	Study Trip		3		
PRACTICAL TRANSFER	Integrated Application Project			4	
	Research Methods & Methodology			2	
	Master Thesis				22
	Master Thesis Colloquium				2
ECTS CREDITS*		30	30	30	30

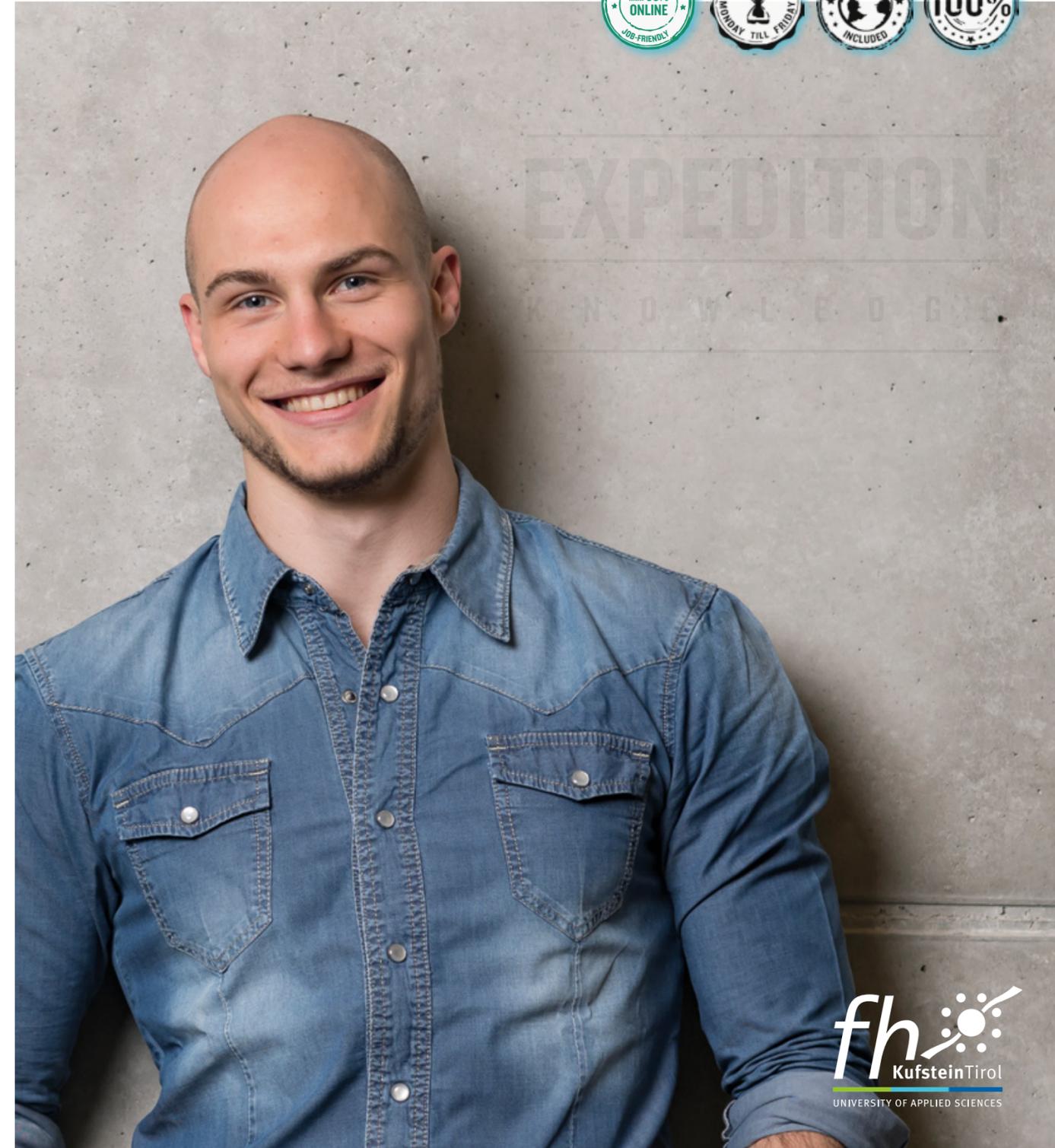
\* ECTS: European Credit Transfer System, amount of work for students per lecture (1 ECTS = 25 h.)

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# DATA SCIENCE & INTELLIGENT ANALYTICS

# MSc

// MASTER  
// DEGREE PROGRAM  
// FULL-TIME



# MASTER STUDIES



## HIGHLIGHTS

- >> Top career opportunities through the combination of technical expertise and application knowledge
- >> Training with real data and the latest tools
- >> Practice-oriented knowledge in visual analytics, big data processing, machine learning and business intelligence
- >> Focussed skills in leadership, project management, innovative business models and business ethics



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## JOB OPPORTUNITIES

- >> Big Data Application Developer
- >> Data Engineer
- >> Big Data & Business Intelligence Consultant
- >> Data Scientist
- >> Manager for Data Science Teams
- >> Big Data Analyst
- >> Specialist for Business Intelligence & Analytics

"I find the areas of data engineering and software development particularly interesting, as this knowledge makes my day-to-day work much easier."

Victoria Petermaier, MSc - Graduate



## FEATURES OF THE MASTER DEGREE PROGRAMS

We support students with a sense of responsibility and ethics in realizing and developing their potential.

### Social skills

From perfecting your presentation skills to management qualities.

### Practical experience & projects

Obtaining experience in analytical and practical application of the skills and knowledge you have acquired, through case studies and projects commissioned by companies.

### International aspect

English-language specialist courses, international teaching staff and study trips abroad.

### Individual aspect

Personal and individual student support as well as personalization of the program through electives.

### Additional qualifications

Optional integrated specialist certification and postgraduate program.

## DATA SCIENCE & INTELLIGENT ANALYTICS >> DSIA

### FULL-TIME



Interdisciplinary and application-oriented. Our full-time Master's degree program in Data Science & Intelligent Analytics equips you with the skills to leverage data streams effectively. Become an expert in making data-driven decisions!

Dive into the world of data science and intelligent analytics and learn to analyze complex data sets to extract valuable insights for your organization. Be at the forefront of shaping the future of data utilization in businesses!

This Master's degree program integrates computer science, statistics, mathematics, and related application disciplines. Graduates gain practical skills in data analysis, technology, business applications, and innovative solution development. We ensure exposure to complex challenges through hands-on data science labs and project-based learning. The program covers the entire value chain, from raw data to cross-functional roles to business success.

## FACTS

### ORGANIZATIONAL FORM

Full-time

PLACES PER YEAR 25

### APPLICATION MODE

Online application, documents must be uploaded

### DURATION

4 semesters

### DEGREE OBTAINED

Master of Science in Engineering (MSc)

### LANGUAGE OF INSTRUCTION

100 % English

### STUDY ABROAD

Integrated international study trip in the 2<sup>nd</sup> semester

### FEES

Euro 363,36 per Semester (excl. [Student Union Fees](#))

Third country students: [www.fh-kufstein.ac.at/thirdcountrystudents](http://www.fh-kufstein.ac.at/thirdcountrystudents)

### ENTRANCE REQUIREMENTS

refer to [www.fh-kufstein.ac.at/admission](http://www.fh-kufstein.ac.at/admission)

"We train data scientists to understand their craft from collecting, storing and analyzing data to using it. Graduates are therefore able to further develop intelligent solutions for companies."

Prof. (FH) Lukas Demetz, PhD  
Interim. Director of Studies



ANY QUESTIONS?  
WE ARE HERE TO HELP YOU.



Phone: +43 5372 71819 500  
E-Mail: [bewerbung@fh-kufstein.ac.at](mailto:bewerbung@fh-kufstein.ac.at)



More about the didactic concept and key qualifications under:  
[FH-KUFSTEIN.AC.AT/DSIAVZ](http://FH-KUFSTEIN.AC.AT/DSIAVZ)