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.**

www.fh-kufstein.ac.at

DRONE ENGINEERING & AI-BASED INNOVATION*

SEMESTER	1	2	3	4	5	6
	ECTS	ECTS	ECTS	ECTS	ECTS	ECTS
LECTURES						
CODING						
Introduction to Programming	5					
UAS Programming		5				
Advanced UAS Programming			5			
Software Architecture for Robotic Systems				4		
UAS Simulation				5		
FLIGHT						
Principles of Flight and Aviation	5					
Fundamentals in UAS Components	4					
Mission Planning & Risk Assessment		5				
UAS Project			4			
Autonomous Systems			5			
Mobility Project				4		
UAS Design				5		
U-Space / UTM				5		
ANALYSIS						
Data & Analytics	5					
Sensory Analysis for UAS Use Case I, II		5	5			
Sensor Data Management		5				
BUSINESS						
Introduction to Regulations & Safety	5					
Project Management & Systems Engineering		4				
Business, Economics & Financing			6			
Open Category Use Cases			5			
Smart Mobility Concepts				5		
INTERNATIONAL						
Foreign Language I, II	6	6				
Semester Abroad:						
Selected Topics in Business					6	
Selected Topics in UAS Engineering					12	
Selected Topics in UAS Sensory, Use Cases & Management					12	
PRACTICAL						
Scientific Writing				2		
Bachelor Seminar						10
Integrated Internship						20
ECTS CREDITS**	30	30	30	30	30	30

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

DRONE ENGINEERING & AI-BASED INNOVATION*

BSc

// BACHELOR
// DEGREE PROGRAM
// FULL-TIME

*Start subject to accreditation by the AQ Austria

FH Kufstein Tirol // Andreas Hofer-Straße 7 // 6330 Kufstein / Austria
Tel. +43 5372 71819 // info@fh-kufstein.ac.at

www.fh-kufstein.ac.at

hochschule**und**familie

fh KufsteinTirol
UNIVERSITY OF APPLIED SCIENCES

USE YOUR TALENT · EXPAND YOUR SKILLS
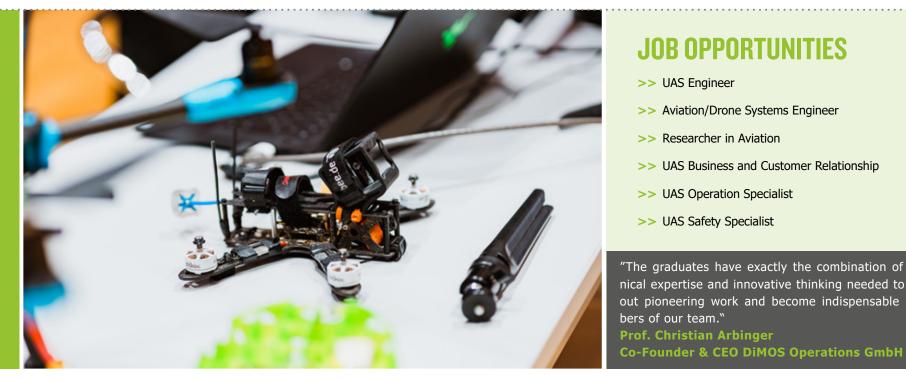
HIGHLIGHTS

>> Gain technical expertise as well as an understanding of the ethical, legal, and social issues regarding drone technology

>> Innovative, practice oriented, applied learning from the start

>> Focus on entrepreneurial thinking

>> 100% Instruction in English and one foreign language

>> Integrated semester abroad at one of 225 partner universities worldwide

>> Integrated internship

JOB OPPORTUNITIES

>> UAS Engineer

>> Aviation/Drone Systems Engineer

>> Researcher in Aviation

>> UAS Business and Customer Relationship

>> UAS Operation Specialist

>> UAS Safety Specialist

"The graduates have exactly the combination of technical expertise and innovative thinking needed to carry out pioneering work and become indispensable members of our team."
Prof. Christian Arbinger
Co-Founder & CEO DiMOS Operations GmbH

FEATURES OF THE BACHELOR DEGREE PROGRAMS

The objective behind our programs is to build on a student's sense of responsibility and ethics, allowing them to realize their own potential, and to provide them with opportunities for further development.

Business administration core
All programs provide a solid foundation in business and management practices.

Social Skills
From perfected presentation and communication techniques to moderation and project management skills.

Practice and projects
Numerous case studies, projects commissioned by businesses and internships.

International
Foreign languages are an integral part of our programs. Full-time students spend at least one semester abroad.

Individual
In an average class group, the student-teacher ratio is 6:1, allowing for a personal and individual learning atmosphere.

Additional qualifications
Optional specialist certifications and postgraduate programs are available.

DRONE ENGINEERING & AI-BASED INNOVATION* >> DRO

FULL-TIME

Our full-time bachelor's degree program in Drone Engineering & AI-based Innovation* provides comprehensive training in drone design, control, programming, and data analysis. Become a pioneer in the drone industry! All courses are taught 100% in English.

The program provides comprehensive knowledge of drone technology and its applications. It focuses on drone design, propulsion systems, and electronic subsystems grounded on the fundamentals of aeronautics and aerodynamics. Software and programming modules enable students to control drones and autonomous unmanned aircraft systems (UAS). Sensor technology and data analysis allow for meaningful use of the collected data. Legal and safety issues complete the curriculum.

English as the language of instruction, additional foreign languages, an integrated semester abroad, and an internship, provide international experience. Management skills and entrepreneurial thinking enhance career opportunities in the global marketplace. Our graduates are technically proficient, understand ethical, legal and social aspects and are trained in critical thinking, problem solving and project management.

FACTS

ORGANIZATIONAL FORM
Full-time

PLACES PER YEAR 25

APPLICATION MODE
Online application, documents must be uploaded

DURATION
6 semesters

DEGREE OBTAINED
Bachelor of Science (BSc)

LANGUAGE OF INSTRUCTION
100 % English

STUDY ABROAD
Integrated semester abroad (5th semester) & internship (6th semester)

FEES
Euro 363,36 per Semester (excl. Student Union Fees)
Third country students: www.fh-kufstein.ac.at/thirdcountrystudents

ENTRANCE REQUIREMENTS
refer to www.fh-kufstein.ac.at/admission

"Drones are the means of transportation of the future. In this study program, we build and program drones. We make them fly and consider the legal frameworks. We evaluate data and learn about the many areas of application and professional fields. Shape the future together with us."
Prof. (FH) DI Dr. Martin Adam
Director of Studies

ANY QUESTIONS?
WE ARE HERE TO HELP YOU.

Phone: +43 5372 71819 500
E-Mail: **bewerbung@fh-kufstein.ac.at**

More information:
FH-KUFSTEIN.AC.AT/DRO

www.fh-kufstein.ac.at