DRONE ENGINEERING

BSc
Full-time

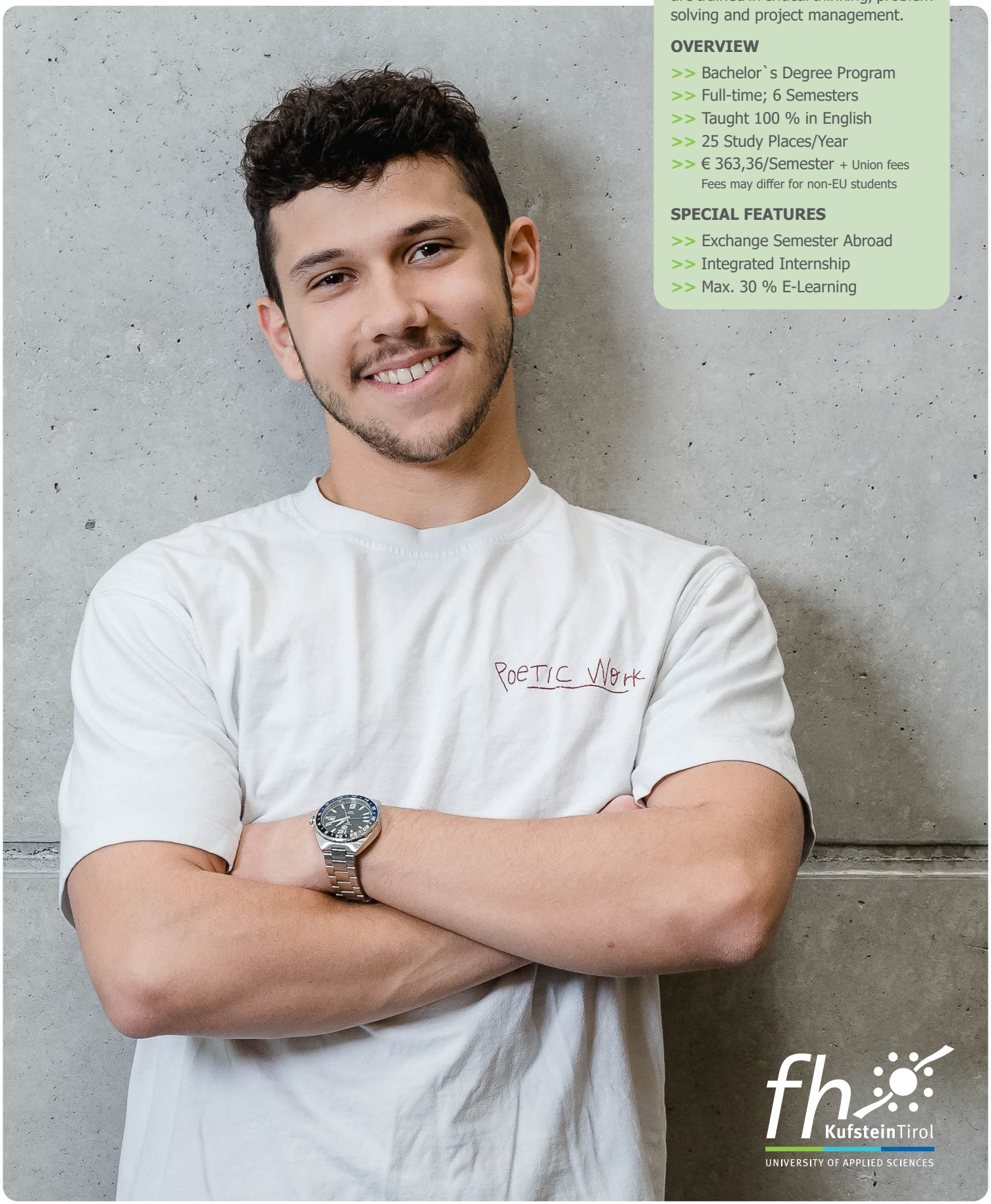
Learn the art of civil drone operation and management. Our graduates are technically proficient, understand ethical, legal and social aspects and are trained in critical thinking, problem solving and project management.

OVERVIEW

>> Bachelor`s Degree Program
>> Full-time; 6 Semesters
>> Taught 100 % in English
>> 25 Study Places/Year
>> € 363,36/Semester + Union fees
Fees may differ for non-EU students

SPECIAL FEATURES

>> Exchange Semester Abroad
>> Integrated Internship
>> Max. 30 % E-Learning



fh KufsteinTirol
UNIVERSITY OF APPLIED SCIENCES

DRONE ENGINEERING

BACHELOR`S DEGREE PROGRAM | BSc | FULL-TIME

Jul 2025

PROGRAM CONTENT

>> Developing drone applications
>> Fundamentals of drone design & components
>> Legal regulations for the use of drones
>> Controlling swarms of drones
>> Sensor data analysis
>> Economic fundamentals

POPULAR OCCUPATIONAL FIELDS

>> Aerial Intelligence Expert
>> UAS Engineer
>> Aviation/Drone Systems Engineer
>> UAS Operation Specialist
>> UAS Safety Specialist
>> UAS Entrepreneur

"Graduates of this study program have the combination of technical expertise and innovative thinking needed to pioneer in our teams."

Christian Arbinger
Co-Founder & CEO
DiMOS Operations GmbH

CURRICULUM

	COURSES	SEMESTER 1	2	3	4	5	6
		ECTS Credits* **30**	**30**	**30**	**30**	**30**	**30**
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		
ANALY-SIS	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		
INTERNA-TIONAL	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	
PRAC-TICAL	Scientific Writing				2		
	Bachelor's Thesis Seminar						10
	Integrated Internship						20

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

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