SMART PRODUCTS & AI-DRIVEN DEVELOPMENT

MSc
Full-time

This program blends technical and business expertise to create intelligent, connected products. It emphasizes the practical use of cutting-edge AI technologies, including generative language models, edge computing, and machine learning, for system analysis and prediction.

OVERVIEW

>> Master`s Degree Program
>> Full-time; 4 Semesters
>> Taught 100 % in English
>> 30 Study Places/Year
>> € 363,36/Semester + Union fees
   Fees may differ for non-EU students

SPECIAL FEATURES

>> Study Trip (1 week)
>> Job-Friendly: Courses Wed-Fri
>> Max. 30 % E-Learning

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UNIVERSITY OF APPLIED SCIENCES

SMART PRODUCTS & AI-DRIVEN DEVELOPMENT

MASTER'S DEGREE PROGRAM | MSc | FULL-TIME

PROGRAM CONTENT

>> Developing intelligent, networked products
>> Production, programming & data analysis
>> Applying system analysis & problem solving
>> Using AI for product development & lifecycle
>> Developing project management skills
>> Interdisciplinary work in international teams

POPULAR OCCUPATIONAL FIELDS

>> Product Developer for smart products and solutions
>> Technical Product Manager
>> Innovation & Technology Manager in the field of digitalization
>> Expert in the field of Internet of Things

"I chose this degree program because it allows me to expand my area of expertise and makes me even more attractive on the job market."

Verena Schmidt, MA
Graduate

CURRICULUM

	COURSES	SEMESTER 1	2	3	4
	ECTS Credits*	30	30	30	30
PRODUCT DEVELOPMENT & MANAGEMENT	Embedded Systems & Edge Analytics	5			
	Sensors & Actuators	5			
	Smart Product Development	5			
	AI-based Product Design		5		
	Project Management & Team Leadership		5		
	Rapid Prototyping		5		
	Risk Management & Compliance		5		
	Manufacturing & Material Science for Smart Products			5	
	Product Management			3	
DATA MGMT.	Coding & Applied AI	5			
	Connectivitiy & Security		5		
	Data Analytics & Visualization			5	
DIGITAL TRANSF.	Digital Transformation & Change Management	5			
	Fundamentals of AI	5			
	Strategy, Business Model & Organization			2	
	Ethics & Privacy				3
ELECTIVES	Application-oriented Analysis Platforms (elective)			4	
	Internet of Things (IoT) (elective)				
	Data Visualizations & Visual Analytics (elective)			4	
	Digital Twin & Simulation (elective)				
	Trends in Data Science (elective)				3
	Trends in Smart Products (elective)				
INT.	Study Trip		5		
PRAXIS-TRANSFER	Business Project			5	
	Research Methods			2	
	Master's Thesis Colloquium				2
	Master's Thesis				22

(elective): Elective modules in cooperation with the Master's degree program Data Science & Intelligent Analytics: Choose 2 of 4 courses in 3rd Semester; 1 of 2 in 4th semester.

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

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