UE | INNOVATION HUB experience. innovation.

by the University of Europe for Applied Sciences

Study Software Engineering, MSc at UE Innovation Hub

a new Berlin-Potsdam campus
for digital pioneers of tomorrow

Why study at UE Innovation Hub?

Future of education

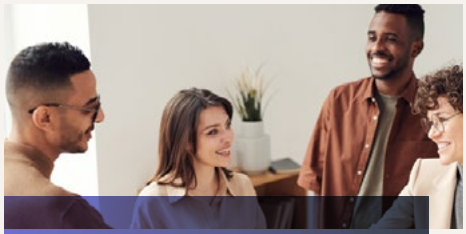
At UE Innovation Hub we focus on future technology and educate the leaders of tomorrow in a newly designed institution that enables you to learn in the most up-to-date educational environment.

Highly skilled lecturers

Our lecturers at UE Innovation Hub are thought leaders and highly skilled professionals with years of industry experience that you will benefit from.

Service & Guidance

We support you in reaching your career ambitions and provide key networking opportunities. Our UE Career Center helps you finding an internship, part-time student work or a career in your chosen field.



Interdisciplinary programmes

We believe the future is a combination of tech, data & design. Our programmes at UE Innovation Hub offer a unique module mix that will be necessary to succeed in tomorrow's job market.

Diverse atmosphere

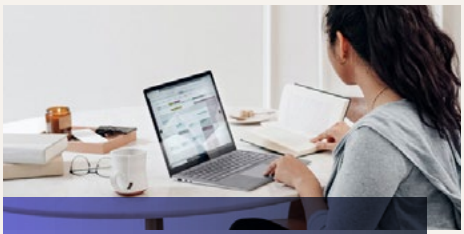
Benefit from diverse network of students and lecturers at UE Innovation Hub. Our English taught programmes attract students from around the world. Explore Potsdam and Berlin with your fellow students.

Industry integrated

All our master's programmes are structured so that at least one module will be held in collaboration with a corporate partner. This will help you to gain valuable industry knowledge.

Potsdam - the science hot spot

Potsdam offers the highest density of scientists in Germany. Our campus is next to incubators such as SAP innovation center where over 200 people research AI and Blockchain technologies.



Study guarantee

We guarantee that you can start your studies online and continue on campus once COVID-19 government guidelines allow.

Innovative learning

You decide how you wish to learn. Either on campus, online / hybrid or via VR-teaching. Whatever your chosen teaching method, you will be learning the most up-to-date industry skills.

Your career starts with **Software Engineering, MSc**

Why study this programme?

In this Software Engineering master's programme, students not only get to know current challenges and solutions in software design and architecture, but they are also enabled to develop solutions and learn the new trends in pattern recognition, vehicular technologies. In addition, students will be able to build software, design and implement smart software and use the benefits of cloud computing and machine learning.

Our goal is to provide master's graduates with the best possible education to kick-start a career in software engineering in any industry.

Your career prospects

Software Developer | Application Developer | AI Software Developer | Technical Consultant | Technical Architect | Application Architect | Agile Project Manager | Smart Game Software Developer | User Devices Integration

Degree:

Master of Science (MSc)

Duration, Credits:

4 Semesters, 120 ECTS

3 Semesters, 90 ECTS

2 Semesters, 60 ECTS

Start of studies:

Winter Semester - September

Summer Semester - March

Teaching language:

English

International offers:

Study abroad

Locations:

Berlin - Potsdam UE Innovation Hub

Admission limitations:

Proof of Academic and / or vocational experience in Computer Science gained (3 years min.)

Modules

Software Engineering, MSc

1st Semester	2nd Semester	3rd Semester	4th Semester
Advanced Software Design • system development • OOP modelling language • domain driven design • micro services design	**Cloud Computing** • cloud infrastructure & technologies • Amazon web services, Windows Azure, Google app engine • build applications in the cloud	**Capstone Project** individual project / industry-infused project / professional experience / study abroad / research project / group project / student exchange project / certificate etc.	**Thesis & Colloquium**
Pattern Recognition • image, speech, recognition • speaker verification • object detection & recognition • motion estimation	**Machine Learning** • artificial intelligence concepts • machine learning in business • supervised & unsupervised learning • neural networks		
Decision Support Systems • smart decision making • effect of decision support system on management & leadership • simulation & optimization	**Vehicular Technology** • automated transport systems • single & multiple vehicle control • sensor detection • autonomous vehicles systems	Advance Research Methodologies	
Software Optimization • IT security • software quality assurance • software testing • security management & risk management	**Multi Core Programming** • multi core programming • shared & distributed memory management • threads control, & multi management • performance optimization	Speculative Futures	
Entrepreneurial Thinking & Digital Models	Comparative Cultural Studies	Business Coaching	
Contemporary Leadership / Culture	**Interdisciplinary Elective** (pick any module from any other PG program except yours)		

Specialized Modules | Faculty-wide Modules | University-wide Modules | Another UE Faculty's Module

Please Note: Modules for Curriculas with 60, 90, 120 ECTS differ. Please talk to your sales advisor for further details.

Your University - Your Partner!

The University of Europe for Applied Sciences (UE) is a state-approved private university that educates the designers and decision makers of tomorrow in the fields of business, psychology, media and communication, sport and event management and art and design.

With campuses in Iserlohn, Berlin and Hamburg, and new Innovation hub in Potsdam, UE offers undergraduate and postgraduate programmes tailored to the requirements of the job market 4.0.

Apply now at www.ue-germany.com/innovation-hub

INNOVATION HUB
experience. innovation.

by the University of Europe for Applied Sciences

Contact

International Student Admissions Team
Fon: +49(0)30 338539 510
E-Mail: student.advice@ue-germany.com

National Student Admissions Team
Fon: +49(0)30 338539 710
E-Mail: study@ue-germany.com

University of Europe for Applied Sciences

www.ue-germany.com