

German UDS

Global education for all,
in a fully virtual university

Profs. Christoph Meinel, President



Short Introduction: Prof. Dr. Christoph Meinel

Prof. Dr. Christoph Meinel



- **President of the German University of Digital Science**
- Former Institute Director and Dean of the HPI
- **Research focus:** Security Engineering, Green Low-Bit AI, Learning and Digital Education, Innovation Research

Short Introduction: Prof. Dr. Christoph Meinel



Founder and President of the German UDS

Member of the National German Academy of Science and Engineering **acatech**

Chairman of various advisory boards and program committees

Scientific publications

- 25+ books
- 800+ conference and journal papers
- 100+ online lectures
- various international patents
- ...



Digital Transformation and AI isn't on its Way, ... It is Already Here and We are Not Well Prepared

Higher education institutions have great potential to contribute through appropriate offerings and partnerships¹



Different skill set will be
needed for the digital future

What Is the Impact of Digital Technologies and AI ?

- 
- Contribution to solve global political and social challenges
 - Enablement of new business models, products and services
 - Knowledge creation is exploding

Organizations worldwide urgently need appropriately trained professionals

What Skills Do Are Needed to Master the Digital Tomorrow?



What Skills Do Are Needed to Master the Digital Tomorrow?

Some Numbers from the German Labor Market:

- The number of skills requested in a job posting has increased by 10% per year
- One in three skills in an average job posting from 2017 in IT, finance or sales is already outdated today
- 40% of the workforce needs retraining

A different skill set than today will
be needed for the jobs of tomorrow

Development of Internet and Devices Enable Digital Education on a Large Scale

Digital technology and AI allow digital education at a completely new level

- Free exchange of knowledge over the Internet
- Efficient apps are available to globally communicate, interact and collaborate
- Easy to generate and distribute multimedia content
- Social networks for social interaction

IT-technologies provide completely new possibilities to set up future universities

Future Universities are Needed to Educate People which Design and Settle the new Digital World

Redefining Education



German UDS – German University of Digital Science: Vision & Mission



Empowering Global Talents

Equipping learners worldwide with the skills and knowledge to succeed in the digital economy through top-tier education, mentorship, and practical resources

World-Class University Degrees

Offering globally accredited Master's and MBA programs that blend academic excellence with innovative digital delivery, providing graduates a competitive edge

Redefining Education

Efficient Lifelong Learning

Providing flexible modular learning designed for professionals to upskill or reskill at any career stage through personalized digital programs

Micro Degree Programs

German UDS Micro-Degree Programs are tailored to fast-track specialization in high-demand digital fields such as AI, cybersecurity, data science, and digital leadership

German UDS – German University of Digital Science: Next-Generation Learning without Borders



Modern Approach

We're embracing innovative AI-based learning methods and formats to empower the next generation of learners.

Empowering Students

German UDS provides students with the skills and knowledge they need to thrive in a dynamic global landscape.



Global Reach

German UDS is breaking down barriers, offering lifelong learning accessible to students worldwide.

German UDS – German University of Digital Science: Our Cloud-Based Learning Environment



Flexible Learning

Access course materials anytime, anywhere with just an internet connection — ideal for balancing studies alongside work or personal responsibilities



Global Community

German UDS brings together a diverse, global community through fully online, English-taught programs—offering inclusive access and scholarships, especially for students from the Global South



Technology-Enabled

Experience cutting-edge, cloud-powered education with easy-to-use tools - no technical skills needed for a smooth and engaging learning experience

German UDS – German University of Digital Science: Revolutionary Learning Experiences



Campus of Virtual Education (COVE)

An immersive digital environment designed to simulate real-world collaboration, enabling students to participate in virtual workshops, co-create projects, and engage in live sessions with peers and mentors across the globe



German UDS – German University of Digital Science: Revolutionary Learning Experiences



AI-Powered Avatars ...



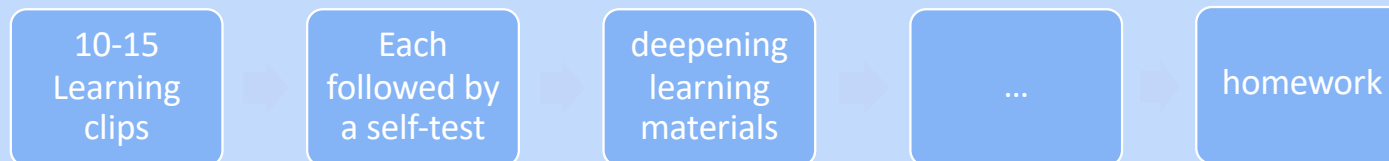
German UDS – German University of Digital Science: Study is Structured in Quarters – Lecture Weeks

- Study program with 4 resp. 3 modules each for 4 / 5 ECTS per Quarter

- Each module runs **3 month** and has **8 lecture weeks**



- 10-15 learning clips** are offered per week, along with reading materials, self-tests, homework. Students are expected to participate in the forum and complete project works – which requires approximately **10 hours of learning**



- If students who successfully complete their homework, participate in interactive learning formats, and take the online examination receive a Micro-Degree (4 or 5 ECTS) from the German UDS

German UDS – German University of Digital Science: Study Programs at a Glance



	M.Sc.	MBA	Micro-Degree
Duration	24 months	12 months	3 months
Credits	120 ECTS	60 ECTS	5 ECTS
Start	April & October	April & October	Quarterly
Tuition	€7,500 per year	€7,500 per year	€900 per course
Programs	- Applied AI, - Cybersecurity - Advanced Reality - Digital Leadership	- Digital Transformation, - Digital Technologies	16 courses (AI, Cybersecurity, etc.)

German UDS – Example of a Study Program: M.Sc. Applied Artificial Intelligence

This two-years online program combines a solid theoretical foundation in AI with a strong focus on practical application:

- Symbolic AI & Neural Networks
- Large Language Models & Evaluation of AI Systems
- Ethics, Explainability, Fairness & Governance
- Hands-on projects & <team-based work with industry partners,
- Nine compulsory & six elective courses



Prof. Dr. Felix Weitkämper

Academic Head of the M.Sc. Applied AI.
Expert in human-centered, interpretable
AI bridging logic and probabilistic
reasoning

How to Use AI for Learning ? The AI-Intern Metaphor

GenAI systems can **create** new content from prompts including text, speech, code, images, audio, video ... They are now widely accessible and can also be used successfully for learning

We propose students:

- Treat GenAI as an eager, quick and broadly capable **learning intern**
- However, as with any new intern, your **AI-intern may make mistakes**, misinterpret information, or exhibit bias
- Your role in this partnership is that of a **manager and editor**: set goals, review work, make corrections and provide approval

German UDS – Example Study Program: M.Sc. Cybersecurity

This fully online, two-years program equips you with practical and theoretical skills to protect complex IT infrastructures

- Security technologies & systems engineering
- Cyber attack & defense techniques:
- Secure Identity Management for high-security environments
- Enterprise Security
- Big Data Analytics, Cloud, AI-powered SOC
- Team-based, production-oriented projects across industries



Dr. Pejman Najafi

Coordinator of M.Sc. Cybersecurity. Senior researcher with expertise in security operations, big data analytics, and AI/ML in cybersecurity

German UDS – German University of Digital Science: Our Cloud-based „University as a Service“



Since all deliveries are digital, German UDS can offer
University as a Service, i.e.

On demand delivery of modular academic content

- from single courses to full degrees
- digital delivery of modules and programs with ECTS credit at German university-level quality

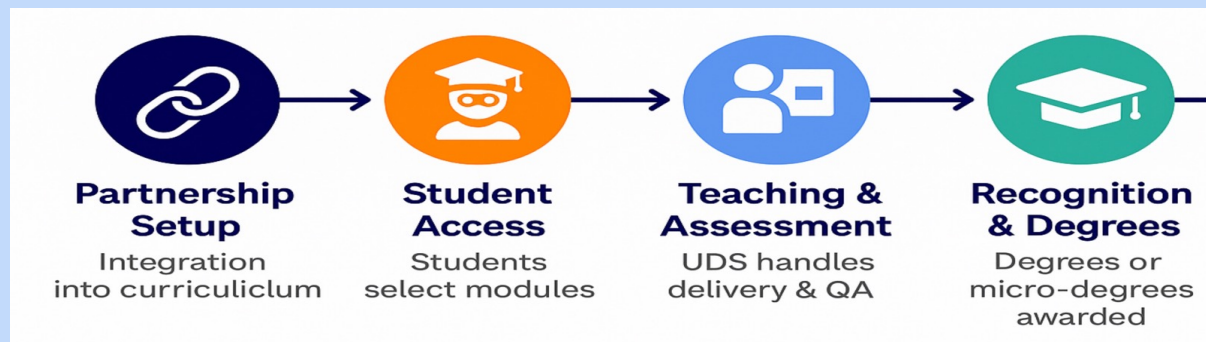
Plug-and-play: No infrastructure or staffing required

- Designed for integration into partner institutions programs

German UDS – German University of Digital Science: Our Cloud-based „University as a Service“

Deliveries:

- From **Micro-degrees programs** (5 ECTS) up to full
- Study programs: **MBA** (60 ECTS) or **M.Sc.** (120 ECTS)
 - Fully managed: teaching, exams, certificates by UDS
 - Customizable for continuing education or degree programs
 - Dual degree or co-branded options available



Micro-Degree Programs

Duration: 3-months, 4 or 5 ECTS



Coding Camp I: Python		Coding Camp II: Interactivity		Design Thinking	Complex Problem Solving		Data Ethics	Big Data, Software Sys. & Cloud Computing	
Digitalization		Artificial Intelligence		Advanced Digital Reality			Cybersecurity		
Understanding & Designing the Digital World	Digital Mgmt. & Human Resources	Machine Learning & Analytics	Applications of AI	Immersive Technologies	Computer Vision & Perception	Security Fundamentals	Systems & Network Security		
Digital Age Leadership & Innovation Mgmt.	Digital Marketing & Media	Deep Learning	Natural Language Processing	Building Virtual World & Simulated Environments	Storytelling & Gamification	Information Security Mgmt.	Mobile & Wireless Security		
Digital Business Models & Venture Building	Digital Ecosystems & Platform Economy	Advanced Deep Learning	Explainability in AI Systems	Augmented Human Performance	Digital Reality Content Creation	Identity Management & Authentication	Software & Application Security		
Strategic Mgmt. & Entrepreneurial Transf.	Data Analytics & Decision Making	Logic & Symbolic AI	Probabilistic Graphical Models	Multimodal Interaction and Sensor	Software Development for Digital Reality	AI-Powered Cybersecurity	Internet & Web Security		
Entrepreneurial Finance & Innovation	Transforming Public Services	Data Ethics in AI	Reinforcement Learning	Advanced 3D Modeling	Project Mgmt. & Entrepreneurship in Digital Reality	Offensive & Defensive Security	Enterprise Security		

German UDS – German University of Digital Science: Our Cloud-based „University as a Service“



Expand offerings without new faculty or platforms

- Boost digital and international profile by integrating modules of the German UDS into your study programs
- Retain and attract students by integrating future-ready digital modules or even full study programs
- Minimal effort – maximum institutional value

Micro-Degree Programs

fast-track your skills in AI,
cybersecurity, data science & digital
leadership

- 3 months, 5 ECTS , €900



Apply Now!

... in addition we offer Career Weeks in Germany – Internship and Cultural Immersion

Different offers of career development, internships, and cultural immersion in Germany

- **Career Skills & Networking:**

Workshops, guest speakers, professional connections

- **Internship Experience:** Real-world placements with German companies (focus Berlin)

- **Culture & Reflection:** Social activities, exploration, final presentations



Let us work together to
improve the chances of
future generations living
a fulfilling life in prosperity

I'm looking forward to
teach and learn with you.

Yours Christoph Meinel