



XU Exponential University of Applied Science



SHORT FACTS

SEMESTER 1

Graduation Master of Arts (M.A.) Type of study Full-time

Scope 60 ETCS Total number of semesters 2 semesters

Language Englisch Matriculation date Every winter semester

Teaching method Seminars in small groups, additional excursions, case studies, integration into

practice

Course and content of studies

MEM 7 Digital Transformation

5 ECTS

oral exam

- Digital Journey: Industry 4.0, digital future markets, IoT, generations of digitalization, communication in the digital age
- Digital Solutions: Digital business models, connecting real and virtual worlds, digital leadership, hardware and software solutions, M2M communication

MEM 1 Digital Management

5 ECTS

case study

- Digital Strategy: Elements of a digital strategy, strategy implementation and -controlling
- Digital Governance: Significance and aspects of digital governance, control models, structure and process analysis, introduction to innovation and knowledge management, risk and compliance management

MEM 2 Digital Organization

5 ECTS

written exam

- Digital Culture: Fundamentals of organizational culture, transformation of organizational culture, concepts of organizational development, fundamentals of change management, significance of corporate culture
- Digital Change/Change Management (Project): Basics and preparation, analysis and diagnosis, concept development and planning, implementation and realization, evaluation of digital change processes.

MEL 1 Digital Human Resources

5 ECTS

term paper

- Digital Recruitment: Recruiting, e-recruiting, importance of social media, legal aspects and limits of digital recruiting
- Digital Assessment/Performance Management: Performance management and measurement, retention management, potential management, software solutions for personnel development

MSK 1 Leadership Skills

5 ECTS

oral exam

- Digital Leadership: Changes in the leadership role, characteristics of digital leadership, modern leadership models, leadership tasks and competencies, agile leadership
- Emotional Leadership: Importance of emotional competencies, emotional intelligence, team leadership and conflict management, case work on selected leadership situations

Elective module (1 of 3)

5 ECTS

presentation



SEMESTER 2		Elective module (1 of 5)	5 ECTS term paper
	MSK 2	Research Skills	5 ECTS term paper
	•	Research Methods and Evaluation: Quantitative and qualitative research methods, statistics Research Project: Planning and implementation of a research project, presentation and defense	
	MT 2	Master Thesis Set-up	5 ECTS oral exam
		Master Thesis Colloquium: Scientific work, scientific-ethical quality criteric presentation of the master thesis Master Thesis Reflection/Coaching: Professional supervision of the Maste	
	MT 1	Master Thesis	15 ECTS thesis

ELECTIVE MODULES

One must be selected per semester. The realization of the election modules depends on a minimum number of participants.

and parts.						
SEMESTER 1	MEL 10	Digital Marketing	5 ECTS presentation			
		Social Media Marketing: Introduction online marketing, social media mark development of social media strategy, guidelines and policy, implemental media strategies, evaluation Search Engine Marketing: Fundamentals, goals and importance of search SEO, search engine advertising, SEM tools	tion of social			
	MEL 11	Digital Engineering	5 ECTS presentation			
		Agile Software Engineering (Scrum)/Software Engineering Process: Introduction and phases of software engineering, classic procedure and process model of software development at a glance, agile software engineering, Scrum, other agile methods Software Engineering Project/Coding Project: Introduction App or web programming, project planning, application creation, testing and integration/publishing, presentation and discussion				
	MEL 12	Digital Security	5 ECTS presentation			
		 Information Security Management: Importance of IT security, technologies, procedures and measures of IT security, security strategies, security of IT infrastructure, security of IT systems and IT applications, security in networks, security and communication, cryptological procedures and protocols IT-Security in Practice: Vulnerability analysis, procedure models for different security incidents, structure and conception of IT security and IT risk managements systems, cooperation and involvement of authorities 				



MELS 1 **Data Mining & Big Data**

5 ECTS

term paper

- Big Data in Marketing: Data-based decision making in the digital era, digital marketing and data-driven business, data science & strategy, data architecture, descriptive and diagnostic analytics, platform infrastructure
- Artificial Intelligence in Marketing: Predictive and prescriptive analytics in marketing, machine and deep learning algorithms and tools, Al products and use-case ideation, Al project and product management, data and Al

MELS2 **Mobile Apps & Cloud Technologies**

5 ECTS

term paper

- Mobile Apps & Cloud Computing: Mobile app design and advanced web technologies, mobile and social app programming, cloud technologies and system design, higher performance computing
- Cross-platform Cloud App Development Project: Research methods applied to mobile and cloud computing (user and market research), mobile and cloud computing technology project (development of a real-time cross-platform social app)

MELS3 Cyber Risk Analysis & Blockchain Systems

5 ECTS

term paper

- · Cybersecurity Risk Analysis: Cybersecurity and risk management, security protocols, cloud computing technology and security, cybersecurity governance, cybersecurity in industrial sectors, cybersecurity and ethics, case study
- Blockchain: Differences between Web 3.0 v-a-v current "stateless" Internet, Bitcoin, blockchain and other distributed ledgers, token security, cryptography, Web 3.0 in business and society/applications and use cases, case study

MELS4 Blockchain Systems & Fintech Payment Technologies

5 ECTS

term paper

- Blockchain Systems: Blockchain basics, the future of money and DeFi, stable tokens, privacy tokens, trading tokens, decentralized credit systems, token sales
- Fin Tech Payment Technologies: History of money and payment systems, basic mechanisms of payments, 4 party system, payment networks (national, transnational, international), FinTech, legal foundations

MELS5 **Blockchain Systems & Fintech Payment Technologies**

5 ECTS

term paper

- Big Data: Big Data in medicine (provider, payer, MedTech, pharma), data categories and quality, central concepts of statistics in evidence-based medicine, data sovereignty as informational freedom design, legal requirements
- Artificial Intelligence: Al in medicine, data mining systems, machine learning, neural networks, interoperability, HL7, DICOM, PACS, icon arrays, electronic medical records, clinical data and privacy, human-robot interaction



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