

CURRICULUM M.SC. SOFTWARE ENGINEERING

DISTANCE LEARNING, 120 ECTS

Semester	Module		Course Code	Course	ECTS	Type of Exam	
	FT	PT I PT II					
1. Semester	1. Semester	1. Semester	Software Engineering: Software Processes	DLMCSSESP01	Software Engineering: Software Processes	5	Oral Assignment
		1. Semester	Advanced Requirements Engineering	DLMSEARE01	Advanced Requirements Engineering	5	Case Study
		1. Semester	Software Architecture	DLMSESA01	Software Architecture	5	Case Study
	2. Semester	2. Semester	Secure Software Development	DLMCSEEDS001_E	Secure Software Development	5	Exam
		2. Semester	Software Testing	DLMSEST01	Software Testing	5	Exam
		2. Semester	Project: Applied Software Engineering	DLMSEPAE01	Project: Applied Software Engineering	5	Project Report
2. Semester	3. Semester	3. Semester	Advanced Research Methods	DLMARM01	Advanced Research Methods	5	Written Assignment
		3. Semester	IT Project Management	DLMBITPAM01	IT Project Management	5	Exam
		3. Semester	IT Governance and Compliance	DLMBITGSM02	IT Governance and Compliance	5	Exam
	4. Semester	4. Semester	Seminar: Sustainable Software Engineering	DLMSESSSE01	Seminar: Sustainable Software Engineering	5	Research Essay
		4. Semester	ELECTIVE A*		e.g. Embedded Systems Engineering	5	Bitte wählen...
3. Semester	5. Semester	5. Semester	ELECTIVE A*		e.g. Project: Embedded Systems	5	Bitte wählen...
		5. Semester	ELECTIVE B*		e.g. Data Engineering	5	Bitte wählen...
	6. Semester	6. Semester	ELECTIVE B*		e.g. Project: Data Engineering	5	Bitte wählen...
		6. Semester	ELECTIVE C*		e.g. Internship: Master Software Engineering:	20	
4.	6.	8.	Master Thesis		Master Thesis Thesis Defense	27 3	Master Thesis Presentation: Colloquium
Total						120 ECTS	



INTERNATIONAL
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You've already planned out exactly how your course schedule should look? Wonderful! The IU International University of Applied Sciences offers you the flexibility to choose any available module you like from any semester. You can work on a number of modules at the same time or one by one.



* Electives: Choose two modules, every elective module can only be chosen once.

FT: Full-Time, 24 months
PT I: Part-Time I, 36 months
PT II: Part-Time II, 48 months

Elective A+B

Embedded Systems Engineering
Project: Embedded Systems
Networks and Distributed Systems
Container Orchestration
Data Engineering
Project: Data Engineering
Process Management with Scrum
Project: Corporate Project with Scrum
Product Development
Design Thinking
Quality Management and Sustainability
Cyber Security and Data Protection
Cyber Risk Assessment and Management
Mobile Software Engineering I
Mobile Software Engineering II
Leveraging Data Sources & Data Mining
Project: Leveraging Data Sources & Data Mining
User Interface and Experience
Project: Human Computer Interaction
Artificial Intelligence
Project: AI Excellence with Creative Prompting Techniques

Elective C

Internship: Master Software Engineering
Management of IT Services and Architecture
DevOps
Conversation Management and Communication Techniques
Project: Software Process Management



You can find more information about your degree program in the module handbook on our website.

Internship:
Decide at the beginning between an internship at a company or modules from compulsory elective C. You complete the internship with a practical reflection. If you decide on the modules from compulsory elective C, all modules from this area must be completed. Mixed forms of internship and compulsory elective C are not possible.