



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



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

*** Internship: B**
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.

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
			Advanced Requirements Engineering	DLMSEARE01	Advanced Requirements Engineering	5	Case Study
			Software Architecture	DLMSESA01	Software Architecture	5	Case Study
	2. Semester	2. Semester	Secure Software Development	DLMCSEEDSO01_E	Secure Software Development	5	Exam
			Software Testing	DLMSEST01	Software Testing	5	Exam
			Project: Applied Software Engineering	DLMSEPASE01	Project: Applied Software Engineering	5	Project Report
2. Semester	3. Semester	3. Semester	Advanced Research Methods	DLMARM01-01	Advanced Research Methods	5	Written Assignment
			IT Project Management	DLMBITPAM01	IT Project Management	5	Exam
			IT Governance and Compliance	DLMBITGSM02	IT Governance and Compliance	5	Exam
			Seminar: Sustainable Software Engineering	DLMSESSSE01	Seminar: Sustainable Software Engineering	5	Research Essay
	4. Semester	4. Semester	ELECTIVE A*		e.g. Embedded Systems Engineering	5	
			ELECTIVE A*		e.g. Project: Embedded Systems	5	
			ELECTIVE B*		e.g. Data Engineering	5	
			ELECTIVE B*		e.g. Project: Data Engineering	5	
3. Semester	5. Semester	5. Semester	ELECTIVE C*		e.g. Internship: Master Software Engineering	20	
4.	6.	6.	Master Thesis		Master Thesis Thesis Defense	27 3	Master Thesis Presentation: Colloquium
Total 120 ECTS							

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
Project: Design Thinking
Quality Management and Sustainability
Cyber Security and Data Protection
Cyber Risk Assessment and Management
Mobile Software Engineering I
Project: Mobile Software Engineering
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
or:
Management of IT Services and Architecture
DevOps
Conversation Management and Communication Techniques
Project: Software Process Management