CURRICULUM M.SC. DEVOPS AND CLOUD COMPUTING
DISTANCE LEARNING, 120 ECTS credits

Semester FT	PT I	PT II	Module	Course Code	Course	ECTS credits	Type of Exam
1. Semester	1. Semester	1. Semester	Agile Software Development Techniques and Methods	DLMIWNF01_E	Agile Software Development Techniques and Methods	5	Written Assessment: Case Study
			IT Service Management	DLMBITGSM01	IT Service Management	5	Exam
			DevOps	DLMDCCDO01	DevOps	5	Written Assessment: Case Study
	2. Semester	2. Semester	Advanced Research Methods	DLMARM01	Advanced Research Methods	5	Written Assessment: Written Assignment
			Introduction to Cloud Computing and Serverless Computing	DLMWIWCC01_E	Introduction to Cloud Computing and Serverless Computing	5	Exam
			Project:Cloud Computing	DLMWIWCC02_E	Project:Cloud Computing	5	Written Assessment: Project Report
2. Semester	3. Semester	3. Semester	Product Development	DLMBPDDT01	Product Development	5	Exam
			Design Thinking	DLMBPDDT02	Project: Design Thinking	5	Written Assessment: Project Report
			Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
		4. Semester	Seminar: Applying Threat Intelligence	DLMCSEECLS02_E	Seminar: Applying Threat Intelligence	5	Written Assessment: Research Essay
	4. Semester		Container Orchestration	DLMDCCCO01	Container Orchestration	5	Exam or Written Assessment: Case Study
		5. Semester	Project: Container Orchestration	DLMDCCPCO01	Project: Container Orchestration	5	Written Assessment: Project Report
3. Semester			Cyber Risk Assessment and Management	DLMCSECRAM01_E	Cyber Risk Assessment and Management	5	Exam
	5. Semester	6. Semester	Seminar: Computer Science and Society	DLMCSSCSAS01	Seminar: Computer Science and Society	5	Written Assessment: Research Essay
		7.	ELECTIVE A*		e.g. IT Governance, Compliance and Service Management	10	
			ELECTIVE B*		e.g. Aspects of Modern Business Communication	10	
4.	6.	8.	Master Thesis		Master Thesis	27	Written Assessment: Master Thesis
					Colloquium	3	
	Total 120 ECTS credits						

☑

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 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

IT Governance, Compliance and Project Management
Secure Software Entwicklung
Audit- and Security Testing
Prerequisites for Machine Learning
Sustainable Corporate Development

Elective B

Aspects of Modern Business Communication
Machine Learning and Deep Learning
Process Management with Scrum
Internet of Things and Ethical Reflection in Management
IT Services and Architecture Management
Project Management within Operations
Management Consulting
E-Commerce
IT Law for IT Security
AI and Mastering AI Prompting

ⓘ

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