

## CURRICULUM M.SC. DEVOPS AND CLOUD COMPUTING

### DISTANCE LEARNING, 120 ECTS credits

Semester			Module	Course Code	Course	ECTS credits	Type of Exam	
FT	PT I	PT II						
1. Semester	1. Semester	1. Semester	Agile Software Development Techniques and Methods	DLMWNF01_E	Agile Software Development Techniques and Methods	5	Written Assessment: Case Study	
			IT Service Management	DLMBITGSM01	IT Service Management	5	Exam	
			DevOps	DLMDCCD001	DevOps	5	Written Assessment: Case Study	
	2. Semester	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	Design Thinking	5	Written Assessment: Project Report	
			Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment	
	4. Semester	4. Semester	4. Semester	Seminar: Applying Threat Intelligence	DLMCSEELS02_E	Seminar: Applying Threat Intelligence	5	Written Assessment: Research Essay
				Container Orchestration	DLMDCCCO01	Container Orchestration	5	Exam or Written Assessment: Case Study
				Project: Container Orchestration	DLMDCCPCO01	Project: Container Orchestration	5	Written Assessment: Project Report
3. Semester	5. Semester	5. Semester	Cyber Risk Assessment and Management	DLMCSECRAM01_E	Cyber Risk Assessment and Management	5	Exam	
			Seminar: Computer Science and Society	DLMCSSCSAS01	Seminar: Computer Science and Society	5	Written Assessment: Research Essay	
			ELECTIVE A*		e.g. IT Governance, Compliance and Service Management	10		
4.	6.	8.	ELECTIVE B*		e.g. Aspects of Modern Business Communication	10		
			Master Thesis		Master Thesis Colloquium	27 3	Written Assessment: Master Thesis	
Total			120 ECTS credits					



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 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 Service 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.