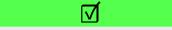
CURRICULUM B.Sc. SOFTWARE DEVELOPMENT

myStudies, 180 ECTS

Month Oct	Model 1:	Program	me Start	October	Model	2: Progran	nme Stai	rt April		
	Courses				Courses					
		000	505		Courses				INTERNATIONAL	
	Requirements	Software E	ngineering	Introduction to					UNIVERSITY OF	
Nov Dec	Engineering	Princ	iples	Academic Work					APPLIED SCIENCI	
				Algorithms, Data						
Jan	IT Architecture	Collaborative Work		Structures, and					\checkmark	
Feb	Management	Collabora	live work	Programming						
Mar	Database Modeling			Languages	Software	Database	Object-oriente	d		
Apr May	and Database	Object-c Programmin		IT Service Management	Engineering	Modeling &	Programming	LL Service	Here you see the order in which yo	
May	Systems		.8		Principles Da er Break	tabase Systems	with Java		your courses in presence dependi your personal study start in Octol	
Jun				Seriest					April. Each semester consists of tw	
Jul	Software Quality Assurance	Data Structu Class L		Specification	Software Quality Assurance	Data Structure Class Lib		Specification	blocks. In each block, you attend	
Aug	Assurance			Correct			Jiary		on campus for usually three cour deepen the content in direct exch	
Sep				Semest	er Break				with your fellow students and lect	
Oct	Web Application	Web Application		Ethics and				You have semester breaks in J		
Nov	Development	IT Infrast	tructure	Sustainability in IT	Requirements Engineering Introduction		Introduction	n to Academic Work September. Attending the co campus is mandatory and wi		
Dec	Techniques and			Drogramming				Algorithms Data	due to Visa regulations (not valid f DACH students).	
Jan	methods for agile	Project: Agi	le Software	Programming Information	IT Architecture			Algorithms, Data Structures, and		
Feb	software	Engineering ¹		Systems with Java		Collaborativ	ve Work	Programming	Each block concludes with a two-	
Mar	development ¹			EE				Languages	exam preparation phase. You can	
Apr	Mobile Software	Project: Mob		IT Project	Mobile Software	Project: Mobile		IT Project	those exams to a later date that y not want to take during this perio	
Мау	Engineering ¹	Engine	ering	Management	Engineering ¹	Enginee	ring [_]	Management	way, your exam phases are alway	
Jun				Semest	er Break				evenly over the year. Exceptions	
Jul	Seminar: Software	Introductio		Cloud Programming	Seminar: Software			Cloud Programming	are courses that count as admissi requirements for other courses.	
Aug	Engineering	Protection an	nd IT Security		Engineering	Protection and	IT Security			
Sep				Semest	er Break					
Oct	DevOps and U	ser Interface	Elective	Floating	Woh Application			Ethics and		
Nov	Continuous	Design and	Elective (online)	Elective (online)	Web Application Development	IT Infrastr	ucture	Ethics and Sustainability in IT	\checkmark	
Dec	Delivery	Ergonomics							Attention: Attendance times may	
Jan	Introduction to	-			Techniques and	Drojacti Acila	Software	Programming	slightly depending on public holic	
Feb	Programming with	Elective (online)		Elective (online)	methods for agile software	Project: Agile Software Engineering ¹		Information Systems with Java	the federal state holidays the cam	
Mar	Python	(em		(011110)	development ¹	Ligineer	1115	EE	located in.	
Apr	Project: Software	Elec	tive	Elective	Project: Software	Electiv	ve	Elective		
Мау	Development	(onl	ine)	(online)	Development	(onlin	ne)	(online)	\checkmark	
Jun				Semest	er Break					
Jul							Thesis		If you are studying Model 2, you wi	
Aug	1	Bachelo	r Thesis			Bachelor ⁻	i nesis		to start your Bachelor Thesis befo completing your final courses.	
Sep				Semest	er Break				Journal Journal Courses.	
Oct					DevOrgand	Jser Interface				
Nov					DevOps and Continuous	Design and	Elective	Elective	\square	
Dec					Delivery	Ergonomics	(online)	(online)		
Jan					Introduction to				¹ These courses take place one aft	
Feb					Programming with	Electiv		Elective	another within the same quarter.	
Mar					Python	(onlin	ie)	(online)		
							ŀ			
ive A*				Elective B*	6			Elective C*	70150	
<i>matics Basics</i> thematics I				Mathematics Basic Mathematics I	S			<i>Business Intelli</i> Business In	·	
thematics II				Mathematics II					siness Intelligence	
matics: Linear Algebra and Analysis					ar Algebra and Analysis			Smart Devices		
-	-			Mathematics: L Mathematics: A	0			Smart Devi Smart Devi		
thematics: Linear				Statistics Basics				Smart Factory		
-	lity and Descriptive Stati	stics		Statistics - Prol	bability and Descriptiv	e Statistics		Smart Facto	•	
thematics: Linear thematics: Analy <i>ics Basics</i> itistics - Probabili					rential Statistics			Smart Facto	ory II	
thematics: Linear thematics: Analy <i>ics Basics</i> tistics - Probabili tistics - Inferentia	al Statistics				bject oriented program	ming with Python		Smart Mobility Smart Mob	lity I	
thematics: Linear thematics: Analy <i>ics Basics</i> tistics - Probabili tistics - Inferentia <i>cience and object</i>	al Statistics t oriented programming	with Python		Introduction to Data Science Object Oriented and Functional Programming with Python				Smart Mobility I Smart Mobility II		
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thematics: Linear thematics: Analy <i>ics Basics</i> itistics - Probabili itistics - Inferentia <i>cience and object</i> roduction to Data ject Oriented and	ial Statistics t oriented programming t ta Science	-		Object Oriente			hon	Smart Mob		
thematics: Linear thematics: Analy <i>ics Basics</i> itistics - Probabili itistics - Inferentia <i>cience and object</i> roduction to Data ject Oriented and <i>et of Things and Er</i> roduction to the l	ial Statistics t oriented programming to ca Science d Functional Programmi <i>Embedded Systems</i> Internet of Things	-		Object Oriente Internet of Things of Introduction to	d and Functional Prog and Embedded Systems o the Internet of Things	;	hon	Smart Mob S <i>mart Services</i> Smart Servi		
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* Electives: Choose one module with two courses from the Elective A, one module from the Elective B and one module from the Elective C. Every elective module can only be chosen once.

UX-Project AI Specialist Artificial Intelligence

Note: The Electives are only offered in distance learning (online)

Project: Artificial Intelligence

Studium Generale

Studium Generale I

Studium Generale II

Internship

Course Information				
Module	Course Code	Course	ECTS	Type of Exam
Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
Software Engineering Principles	IGIS01_E	Software Engineering Principles	5	Exam
Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
IT Architecture Management	DLBCSEITPAM02	IT Architecture Management	5	Exam
Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
Algorithms, Data Structures, and Programming Languages	DLBCSL01	Algorithms, Data Structures, and Programming Languages	5	Exam
Database Modeling and Database Systems	DLBCSDMDS01	Database Modeling and Database Systems	5	Exam
Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
IT Service Management	DLBCSITSM01-01	IT Service Management	5	Exam
Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	Exam
Data Structures and Java Class Library	DLBCSDSJCL01	Data Structures and Java Class Library	5	Exam
Specification	DLBCSS01	Specification	5	Exam
Web Application Development	DLBCSWAD01	Web Application Development	5	Advanced Workbook
IT Infrastructure	DLBSEPITI01_E	IT Infrastructure	5	Exam
Ethics and Sustainability in IT	DLBSEPENIT01_E	Ethics and Sustainability in IT	5	Case Study
Techniques and methods for agile software development	IWNF01_E	Techniques and methods for agile software development	5	Exam
Project: Agile Software Engineering	IWNF02_E	Project: Agile Software Engineering	5	Project Report
Programming Information Systems with Java EE	IPWA02-01_E	Programming Information Systems with Java EE	5	Exam
Mobile Software Engineering	IWMB01_E	Mobile Software Engineering	5	Exam
Project: Mobile Software Engineering	IWMB02-01_E	Project: Mobile Software Engineering	5	Portfolio
IT Project Management	DLBCSEITPAM01	IT Project Management	5	Exam
Seminar: Software Engineering	ISSE01_E	Seminar: Software Engineering	5	Research Essay
Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
Cloud Programming	DLBSEPCP01_E	Cloud Programming	5	Portfolio
DevOps and Continuous Delivery	DLBSEPDOCD01_E	DevOps and Continuous Delivery	5	Case Study
User Interface Design and Ergonomics	DLBMIUID01_E	User Interface Design and Ergonomics	5	Exam
Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
Project: Software Development	DLBSEPPSD01_E	Project: Software Development	5	Oral Project Report
ELECTIVE A*		e.g. Robotics and Production Engineering	10	
ELECTIVE B*		e.g. International Management and Leadership	10	
ELECTIVE C*		e.g. Smart Factory	10	
Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
		Thesis Defense	1	Presentation: Colloquium