## **CURRICULUM B.Sc. COMPUTER SCIENCE**

### myStudies, 180 ECTS

	Model 1: Programme Start October				Model 2: Programme Start April			
Month		Cou		Courses				
Oct	Introduction to	Object	ariantad	Intercultural and				
Nov	Introduction to Computer Scienc	2	oriented ng with Java	Ethical Decision				
Dec			-	Making				
Jan		Statistics: Probability and						
Feb	Mathematics I		Statistics: Probability and Descriptive Statistics					
Mar						_		
Apr	Data structures ar	Mathen	Mathematics II		Introduction to	-	oriented	Intercultural and Ethical Decision
Мау	Java class library Mather		naties n	Development	Computer Science	Programming with Java		Ethical Decision Making
Jun				Semest	ter Break			
Jul	Project: Java and	Computer Architecture ar		Introduction to	Mathematics I	Statistics: Probability and Descriptive Statistics		Collaborative Worl
Aug	Web Developmen	t Operating	g Systems Academic Wo		Mathematics			
Sep	Semester Break			ter Break				
Oct	Database Modelin	g		Requirements				
Nov	and Database	-	Project: Build a Data Mart in SQL		Data structures and Java class library	Mathematics II		Web Application Development
Dec	Systems		~~-	Engineering				
Jan	Algorithms, Data				Project: Java and Web Development	Computer Architecture and Operating Systems		Introduction to Academic Work
Feb	Structures and Programming	Computer Networks and Distributed Systems		Introduction to Programming with				
Mar	Languages	Distribute	a bystems	Python	Web Development	operating systems		Academic WOIK
Apr	IT Service	Project: I	Project: IT Service		IT Service	Project: IT Service		Theoretical Comp.
Мау	Management	Manag	gement	Science & mathematical logic	Management	Management		Science & mathematical logic
Jun					ter Break			
Jul	Software Quality	Introduction to Data		Converte averables	Software Quality	Introduction to Data		Chiptographi
Aug	Assurance	Protection ar	nd IT Security	Cryptography	Assurance	Protection and IT Security		Cryptography
Sep	Semester Break			ter Break			•	
Oct				Elective (online)	Database Modeling	Project: Build a Data Mart in SQL		Requirements Engineering
Nov	Specification		Agile Project Elective Management (online)		and Database Systems			
Dec	1	management						
Jan					Algorithms, Data			Introduction to
Feb	IT Law	roject Software Elective Engineering (online)		Elective (online)	Structures and Programming	Computer Networks and Distributed Systems		Programming with
Mar	1	LIGUIEEIIIg	(ontine)	(online)	Programming Languages	Distributed Systems		Python
Apr			Seminar:	Current Topics in			Seminar:	Current Topics in
May	Computer Science and Society		Computer Science		Computer Science and Society		Computer Science	
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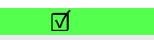
# iu INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

### $\overline{\mathbf{A}}$

lere you see the order in which you can tudy your courses in presence depending n your personal study start in October or pril.

J International University of Applied ciences offers you the flexibility to witch from campus to online studies or ne other way around. You decide which emester you want to spend on campus r online.

he above is only valid for DACH students. or INT Students: attending the courses n Campus in presence is mandatory and vill be verified due to VISA regulations.



ach semester consists of two blocks that onclude with a two-week exam reparation phase. You can also defer hose exams to a later date that you do ot want to take during this period. This vay, your exam phases are always spread venly over the year.

n each block, you attend classes on ampus for usually three courses to eepen the content in direct exchange vith your fellow students and lecturers. ou have semester breaks in June and eptember.

<b>⊴</b>

May							
Jun	Semester Break				Attention: Attendance times may vary		
Jul	- Bachelor Thesis		hesis Bachelor Thesis			slightly depending on public holidays and the federal state holidays the campus is	
Aug		of mesis					located in.
Sep		Semest	er Break				
Oct				A sile Dusie st	<b>F</b> landing		
Nov			Specification	Agile Project Management	Elective (online)	Elective (online)	$\checkmark$
Dec			, , , , , , , , , , , , , , , , , , ,				
Jan					<b>Flastiva</b>	<b>Flasting</b>	If you are studying Model 2 you will have to start your Bachelor Thesis before
Feb				Project Software Engineering	Elective (online)		completing your final courses.
Mar							

Elective A*	Elective B*	$\checkmark$
Big Data and Cloud Technologies	Big Data and Cloud Technologies	
Big Data Technologies	Big Data Technologies	
Cloud Computing	Cloud Computing	* Electives: Choose one module with two
Business Intelligence	Business Intelligence	courses from the Elective A and one
Business Intelligence	Business Intelligence	module from the Elective B. Every elective
Project: Business Intelligence	Project: Business Intelligence	module can only be chosen once.
IT Project and Architecture Management	IT Project and Architecture Management	
IT Project Management	IT Project Management	Note: The Electives are only offered in
IT Architecture Management	IT Architecture Management	distance learning (online).
Mobile Software Engineering	Mobile Software Engineering	
Mobile Software Engineering I	Mobile Software Engineering I	
Mobile Software Engineering II	Mobile Software Engineering II	
Salesforce Platform Development	Salesforce Platform Development	(i)
Salesforce Platform App Builder	Salesforce Platform App Builder	
Salesforce Platform Developer	Salesforce Platform Developer	By choosing the elective "Internship",
Salesforce Platform Management	Salesforce Platform Management	"Studium Generale" and/or "Salesforce
Salesforce Fundamentals	Salesforce Fundamentals	Platform Management" you cannot
CRM with Salesforce Service Cloud	CRM with Salesforce Service Cloud	<b>c</b> .
Software Engineering with Python	Software Engineering with Python	qualify for the dual degree with LSBU.
Object oriented and functional programming in Python	Object oriented and functional programming in Python	The sheating Western shirt is a fferred for the
Data Science Software Engineering	Data Science Software Engineering	The elective "Internship" is offered for the
	Studium Generale	first time in October 2022.
	Internship	

#### **Course Information**

Module	Course Code	Course	ECTS	Type of Exam
Introduction to Computer Science	DLBCSICS01	Introduction to Computer Science	5	Exam
Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
Intercultural and Ethical Decision Making	DLBCSIDM01	Intercultural and Ethical Decision Making	5	Written Assessment: Case Study
Mathematics I	DLBCSM101	Mathematics I	5	Exam
Statistics - Probability and Descriptive Statistics	DLBDSSPDS01	Statistics - Probability and Descriptive Statistics	5	Exam
Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
Data structures and Java class library	DLBCSDSJCL01	Data structures and Java class library	5	Exam
Mathematics II	DLBCSM201	Mathematics II	5	Exam
Web Application Development	DLBCSWAD01	Web Application Development	5	Advanced Workbook
Project: Java and Web Development	DLBCSPJWD01	Project: Java and Web Development	5	Portfolio
Computer Architecture and Operating Systems	DLBCSCAOS01	Computer Architecture and Operating Systems	5	Exam
Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
Database Modeling and Database Systems	DLBCSDMDS01	Database Modeling and Database Systems	5	Exam
Project: Build a Data Mart in SQL	DLBDSPBDM01	Project: Build a Data Mart in SQL	5	Portfolio
Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
Algorithms, Data Structures and Programming Languages	DLBCSL01	Algorithms, Data Structures and Programming Languages	5	Exam
IT Service Management	DLBCSITSM01-01	IT Service Management	5	Exam
Project: IT Service Management	DLBCSPITSM01	Project: IT Service Management	5	Written Assessment: Project Report
Computer Networks and Distributed Systems	DLBCSCNDS01	Computer Networks and Distributed Systems	5	Exam
Theoretical Computer Science and Mathematical Logic	DLBCSTCSML01	Theoretical Computer Science and Mathematical Logic	5	Exam
Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	Exam
Specification	DLBCSS01	Specification	5	Exam
Computer Science and Society	DLBCSCSAS01	Computer Science and Society	5	Written Assessment: Written Assignment
Cryptography	DLBCSCT01	Cryptography	5	Exam
Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
Agile Project Management	DLBCSAPM01	Agile Project Management	5	Written Assessment: Project Report
Seminar: Current Topics in Computer Science	DLBCSSCTCS01	Seminar: Current Topics in Computer Science	5	Written Assessment: Research Essay
IT Law	DLBCSIITL01	IT Law	5	Written Assessment: Case Study
Project Software Engineering	DLBCSPSE01	Project Software Engineering	5	Written Assessment: Project Report
ELECTIVE A*		e.g. Big Data and Cloud Technologies	10	
ELECTIVE B*		e.g. Business Intelligence	10	
Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
		Thesis Defense	1	Presentation: Colloquium

ECTS	Type of Exam
5	Exam
5	Exam
5	Written Assessment: Case Study
5	Exam
5	Exam
5	Oral Assignment
5	Exam
5	Exam
5	Advanced Workbook
5	Portfolio
5	Exam
5	Basic Workbook
5	Exam
5	Portfolio
5	Exam
5	Exam
5	Exam
5	Written Assessment: Project Repor