

Appendix A – Modules, assessments and examinations in the Bachelor’s degree programme ‘Computer Science (English)’

B.Sc. Computer Science (English)				Winter semester	Summer semester	Semester break	Winter semester	Summer semester	Winter semester	Summer semester									
Module category	Modules	Type of assessment	Grading	ECTS credits		Subject semester													
						1	2		3	4	5	6							
				L / EP / P hrs/wk	credits	L / EP / P hrs/wk	credits	L / EP / P hrs/wk	credits	L / EP / P hrs/wk	credits	L / EP / P hrs/wk	credits						
Mandatory section: Lecture Series ‘Perspectives in Computer Science’		written	u	2	0	2/0/0	2												
Mandatory section: Fundamentals of Mathematics	Mathematics for Computer Scientists 1	written exam(s), PA	g	0	9	4/2/0	9												
	Mathematics for Computer Scientists 2	written exam(s), PA	g	0	9		4/2/0	9											
	Mathematics for Computer Scientists 3	written exam(s), PA	g	0	9				4/2/0	9									
Mandatory section: Practical skills classes	Software Engineering Lab	Project work	u	9	0			2 / 0 / 4	9										
Mandatory section: Fundamentals of Computer Science	Programming 1	written exam(s), PA	g	0	9	4/2/0	9												
	Programming 2	written exam(s), PA	g	0	9		4/2/0	9											
	System Architecture	written exam(s), PA	g	0	9		4/2/0	9											
	Introduction to Theoretical Computer Science	written exam(s), PA	g	0	9				4/2/0	9									
	Fundamentals of Data Structures and Algorithms	written exam(s), PA	g	0	6				2/2/0	6									
	Big Data Engineering	written exam(s), PA	g	0	6					2/2/0	6								
	Concurrent Programming	written exam(s), PA	g	0	6					2/2/0	6								
	Elements of Machine Learning	written exam(s), PA	g	0	6						2/2/0	6							
Mandatory elective section: Introductory seminars*		oral, written	g	0	5				0/0/2	5									
Mandatory elective section: Seminars*		oral, written	g	0	7					0/0/2	7								
Mandatory elective section: Core lecture courses	(Core lecture courses; 9 credits per course)	written exam(s), PA	g	0	18					4/2/0	9	4/2/0	9						
Mandatory elective section: Core or advanced lecture courses*	(Core or advanced lecture courses*; variable credits)	written exam(s), PA	g	0	18 to 21							4/2/0	9	4/2/0	9				
Language course (German or English)	(Language course modules, 3 or 6 credits)	oral, written	u	6	0		6												
Mandatory elective section: ‘Freely selectable modules’	(modules offered subject to change, variable credits, see list below)		u	at least 7	0								4						
	Bachelor’s Seminar	oral, written	g	0	9									9					
	Bachelor’s Thesis	Bachelor’s thesis (final-year research project and thesis)	g	0	12									12					
TOTAL				at least 24	at least 156		26		30		9		29		28		28		30

* The range of modules offered in these sections varies from semester to semester and is published in the course catalogue. The Examination Board may add modules to or withdraw modules from this list.

Key: L = Lecture, EP = Exercise and problem-solving class, P = Project or practical training, PA = Preliminary assessment, credits = ECTS credits, credit hrs/wk = no. of class or supervised hours per week during the semester