

# Master degree programm

## Computer Science (M.Sc.)



### Study and examination plan (Appendix I)

Key	Examination components	Course	Semester							
			1.	2.	3.	4.				
Grading system	St= Standard (graded); bnb= passed/not passed					Examinations are assigned to semesters for guidance only.				
Forms of examinations	A = submission, B = report, E = essay, H = research assignment, HÜ = homework, worksheets, K = written exam, Kq = colloquium, M = oral examination as specified in module description, mP = oral examination, M/S = oral/written examination as specified in module description, P = log, Pt = presentation, R = seminar paper, S = written examination as specified in module description, SF = special form, Th = thesis									
Status:	o= compulsory; f= optional									
Forms of teaching	VL=Lecture; S=Seminar; Ü=tutorial; iV= integrated lecture; VÜ=lecture and tutorial; PR=Lab; ...									
Compulsory attendance:	yes = courses with compulsory attendance according to §11 (6) APB, except lectures, justification in the module description. MHB = see module handbook, modules with compulsory attendance in this area, if applicable.									
Grade improvement attempt (optional):	x = A grade improvement attempt in accordance with § 30 (1a) APB is only possible in the examination(s) correspondingly marked with x.									
Prerequisite for admission	MHB: see module handbook, for this examination or module there is a prerequisite for admission according to §18 APB.									
CP:	Credi Point									
TUCaN number and assignment of CPs to module elements are informative in nature. The CPs are given once the module is completed.										
<b>Prerequisite for admission</b> <b>Subject examinations (Fachprüfungen)</b> <b>Study credits (Studienleistungen)</b> <b>Form of examination</b> <b>Grade improvement attempt in accordance with § 30 (1a) APB</b> <b>Duration (min)</b> <b>Weighting for module grade (%)</b> <b>Weighting for overall grade (factor)</b> <b>Contact hours per week (SWS)</b> <b>Status</b> <b>Form of teaching</b> <b>Compulsory attendance</b> <b>Total CPs</b>										
<b>Elective Areas, Specializations and Generale Education</b>						90	30	30	30	
<b>A Elective Areas &amp; Specializations (open catalogues)</b>						66-72	66-72			
<b>A.1 Core Course Catalogues</b> (open catalogues) (Type § 30 Abs. 5 APB) min. 12 CP - max. 18 CPs						12-18	12-18			
<b>Software &amp; Hardware</b>						o				
Software & Hardware						1	o	6-12	6-12	
<b>Theory</b>						o				
Theory						1	o	6-12	6-12	
<b>A.2 Specializations (Type § 30 Abs. 4 APB)</b> Choice of exactly one specialization min. 54 CP - max. 60 CPs						o	54-60	54-60		
<b>Specialization Data Science and Engineering</b> min. 54 CP - max. 60 CP						f	54-60	54-60		
<b>Elective Areas (Type § 30 Abs. 5 APB)</b> Subject examinations from the elective areas of the specialization Data Science and Engineering. Examination form and duration according to the specifications of the department offering the course. Open catalogues min. 42 CPs - 48 CPs						o	42-48	42-48		
<b>Foundations of Data Science</b>						o				
Foundations of Data Science						1	o	12-24	12-24	
<b>Data Systems Engineering</b>						o				
Data Systems Engineering						1	o	12-24	12-24	
<b>Data Science Applications</b>						o				
Data Science Applications						1	o	12-24	12-24	
<b>Seminars, Labs, Practical Labs in Teaching (Type § 30 Abs. 6 APB).</b> Choice from the listed catalogues of the specialization Data Science and Engineering. Examination form and duration according to the specifications of the department offering the course. Open catalogues min. 12 CP - max. 18 CP						o	12-18	12-18		
Seminare (min. 1)						1	o	3-12	3-12	
Practical lab in teaching (max. 1)						1	f	0-5	0-5	
Lab, Project Lab, etc. (min. 1)						1	o	6-15	6-15	
Research Paper						1	f	0-9	0-9	

