

# Study Structure (Curriculum)



1	Fundamentals Inf. Technology	Operating Systems	Intercultural Competence	German as a foreign language I			English
2	Fundamentals of Programming	Discrete Mathematics	Study with Success	German as a foreign language II			
3	Software Engineering	Algorithms & Data Structures	Computer Networks	Fundamentals of Web Dev.	Statistics	Design, Commun. & Presentation	Mainly taught in German
4	Software Systems Development	Data Science	IT Security	Full Stack Web Development	Database Systems	Mathematics for Comp. Scientists	
5	Advanced Topics of Programming	Software Architecture	Cloud Computing	Applied AI	Efficient Prog. with C/C++	Digital Ethics	
6	Advanced AI	RESTful Web Serv	Reverse Eng.	Applied Robotics	Applied IT Security	General Elective e.g. Model Flying	
7	Interdisciplinary SW Dev. Project	Mobile App Dev.	Natural Language Processing	Autonomous Systems	Domain Specific Languages	Hardware-oriented programming	
8	Internship			Bachelor thesis			

Electives = examples chosen from the existing electives pool

