

1 <sup>st</sup> Semester	ECTS	HWS	2 <sup>nd</sup> Semester	ECTS	HWS	3 <sup>rd</sup> Semester	ECTS	HWS	4 <sup>th</sup> Semester	ECTS	HWS	5 <sup>th</sup> Semester	ECTS	HWS	6 <sup>th</sup> Semester	ECTS	HWS
Programming	10	6	Big Data & Analytics	5	3	IT Platform	5	3	Artificial Intelligence	5	3	Semester abroad or Internship semester	30	18	Thesis & Colloquium <sup>7</sup>	15	9
Computer Architecture	5	3	Backend Development	5	3	Software Engineering 2	5	3	Advanced Programming	5	3						
Management Basics	5	3	Parallel Programming	5	3	Cloud Computing & distributed Systems	5	3	IT Security and Crypto Technologies	5	3						
Start-Up-Management	5	3	Software Engineering 1	5	3	Operating Systems	5	3	IT Agile Development	5	3						
Mathematics & Statistics	5	3	GUI Design and Web Optimization	5	3	Software Testing and Software Quality	5	3	Corporate Management	5	3						
Business English	5	3	Quantitative & Qualitative Methods	5	3	Digital Media & Communication	5	3	Machine Learning and Smart Systems	5	3						
	30	18		30	18		30	18		30	18		30	18		30	18
<b>120 ECTS</b>																	

	Mandatory faculty-wide modules
	Mandatory specialization modules
	Compulsory elective modules

**List of abbreviations**

HWS: Hours per week (1 hour = 45 min.)  
ECTS: European Credit Transfer System