

Mandatory elective section: 'Freely selectable modules'				
Tutoring	Tutoring	u	4	0
Language courses (max. 6 credits)	oral, written	u	3 / 6	0
Industrial work placement / internship (max. 6 credits)		u	6	0
Other lecture courses in computer science				
<i>The Examination Board may add modules to or withdraw modules from this list.</i>				

Mandatory elective section: 'Core Topics in Cybersecurity'				
Advanced Public-Key Cryptography	written exam(s), PA	g	0	6
Algorithms in Cryptanalysis	written exam(s), PA	g	0	6
Generating Software Tests	written exam(s), PA	g	0	6
Machine Learning in Cybersecurity	written exam(s), PA	g	0	6
Mobile Security	written exam(s), PA	g	0	6
Obfuscation	written exam(s), PA	g	0	6
Parameterized Verification	written exam(s), PA	g	0	6
Physical-Layer Security	written exam(s), PA	g	0	6
Privacy Enhancing Technologies	written exam(s), PA	g	0	6
Reactive Synthesis	written exam(s), PA	g	0	6
Secure Web Development	written exam(s), PA	g	0	6
Side-Channel Attacks & Defenses	written exam(s), PA	g	0	6
Usable Security	written exam(s), PA	g	0	6
Web Security	written exam(s), PA	g	0	6
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Mandatory elective section: 'Complementary Topics in Cybersecurity'				
Automated Debugging	written exam(s), PA	g	0	6
Big Data Engineering	written exam(s), PA	g	0	6
Elements of Statistical Learning	written exam(s), PA	g	0	6
Ethics for Nerds	written exam(s), PA	g	0	6
Concurrent programming	written exam(s), PA	g	0	6
Cybersecurity Laws and Regulations – Legal Aspects of Data Protection	written exam(s), PA	g	0	6
Cybersecurity Laws and Regulations – Legal Aspects of Cybercrime	written exam(s), PA	g	0	6
Topics in Algorithmic Data Analysis	written exam(s), PA	g	0	6
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