Module	Topics in Applied Cryptography						
MA-INF 3311							
Workload	Credit points	Duration	Freque	ency			
270 h	9 CP	1 semeste	er every	very year			
Module	Prof. Dr. Joachim von zur Gathen						
coordinator							
Lecturer(s)	Prof. Dr. Joachim von zur Gathen, Dr. Michael Nüsken						
Classification	Programme		Mode	Seme	Semester		
	M. Sc. Compu	Option	al   3.	3.			
Technical skills	Gain deeper understanding in a special area of cryptography						
	close to current research.						
Soft skills Oral presentation (in tutorial groups), written presentation						(of	
	exercise solutions), team collaboration in solving homework						
	problems, critical assessment.						
Contents	One varying, advanced topic related to current research in						
	applied cryptography, e.g.						
	<ul><li> mobile security, or</li><li> design and analysis of hash functions.</li></ul>						
Prerequisites	Required:						
	MA-INF 1103 – Cryptography						
	and one further course in cryptography like The Art of Cryptography or eSecurity.						
	Teaching forms	at G	roup size	h/week	Workload[h]	CP	
Format	Lecture		60	4	60 T / 105 S	5.5	
	Exercises		30	2	30 T / 75 S	3.5	
	T = face-to-face teaching; $S = independent study$						
Exam achievements	Written exam				(graded)		
Study achievements	Successful exercise participation				(not graded)		
Forms of media							
Literature							