

Module MA-INF 3320	Lab Security in Distributed Systems				
Workload 270 h	Credit points 9 CP	Duration 1 semester	Frequency every year		
Module coordinator	Prof. Dr. Matthew Smith				
Lecturer(s)	Prof. Dr. Matthew Smith				
Classification	Programme M. Sc. Computer Science		Mode Optional	Semester 2.	
Technical skills	The students will carry out a practical task (project) in the context of distributed security, including documentation of the implemented software/system.  Strong programming skills required.				
Soft skills	Ability to properly present and defend design decisions, to prepare readable documentation of software; skills in constructively collaborating with others in small teams over a longer period of time; ability to classify ones own results into the state-of-the-art of the resp. area				
Contents	Security in distributed systems, including amongst others: <ul style="list-style-type: none"><li>• Secure Messaging</li><li>• App Security</li><li>• SSL/HTTPS</li><li>• API Security</li><li>• Machine Learning for Security</li><li>• Passwords</li><li>• Intrusion Detection Systems</li><li>• Anomaly Detection</li><li>• Security Visualisation</li></ul>				
Prerequisites	none				
Format	Teaching format	Group size	h/week	Workload[h]	CP
	Lab	8	4	60 T / 210 S	9
	T = face-to-face teaching; S = independent study				
Exam achievements	Oral presentation, written report (graded)				
Study achievements	none (not graded)				
Forms of media					
Literature					