Module	Advanced Algorithms							
MA-INF 1104								
Workload	Credit points	Duration		Frequency				
270 h	9 CP	1 semester		every year				
Module	Prof. Dr. Stefan Kratsch							
coordinator								
Lecturer(s)	Prof. Dr. Stefan Kratsch, Prof. Dr. Heiko Röglin							
Classification	Programme			Mode	S	Semester		
	M. Sc. Computer Science			Option	$\mathrm{al} \mid 1.$	1.		
Technical skills	Deeper insights into selected methods and techniques of modern							
	algorithmics.							
Soft skills	Presentation of solutions and methods, critical discussion of							
	applied methods and techniques.							
Contents	Advanced algorithmic techniques from e.g. approximation,							
	randomized and exact exponential time algorithms. We will also							
	revisit some essential topics such as linear programs and network							
	flows.							
Prerequisites	none							
	Teaching forms	at	Grou	ıp size	h/we	eek	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)							ded)
Forms of media								
Literature								