Module	Lab Algorithms for Chip Design					
MA-INF 1308						
Workload	Credit points	Duration	Freque	ncy		
270 h	9 CP	1 semester	every y	vear		
Module	Prof. Dr. Jens Vygen					
coordinator						
Lecturer(s)	All lecturers of Discrete Mathematics					
Classification	Programme		Mode	Seme	Semester	
	M. Sc. Computer Science		Optiona	d 3.	3.	
Technical skills	Competence to implement algorithms for VLSI design, efficient					
	handling of very large instances, testing, documentation.					
	Advanced software techniques.					
Soft skills	Efficient implementation of complex algorithms, abstract					
	thinking, modelling of optimization problem in VLSI design,					
	documentation of source code					
Contents	A currently challenging problem will be chosen each semester. The precise task will be explained in a meeting in the previous semester.					
Prerequisites	Required: At least 3 of the following: MA-INF 1102 – Combinatorial Optimization MA-INF 1202 – Chip Design MA-INF 1205 – Graduate Seminar Discrete Optimization					
	MA-INF 1208 – Applications of Cryptography					
Format	Teaching forms	at Gr	oup size	h/week		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	The topics and the relevant literature will be announced towards					
	the end of the previous semester					