Module MA-INF 3207	Advanced Logic Programming					
Workload	C	D4:	Th			
180 h	Credit points 6 CP	Duration 1 gamestar	Frequen	-		
		1 semester	every year			
Module	Dr. Günter Kniesel					
coordinator	Dr. Cünten Unicael Ivo Brof Dr. Ii- V-i-tlü- I					
Lecturer(s)	Dr. Günter Kniesel, JunProf. Dr. Janis Voigtländer					
Classification	Programme		Mode	Semester		
	M. Sc. Computer Science   Optional   2. or 3.					
Technical skills	write clean but highly efficient Prolog programs using these techniques; competence in problem solving using the declarat paradigm; competence in using the non-logical features of Prolog;					
Soft skills	programming assignments, collaboration with other students					
	small teams					
Contents	development environment, searching, understanding backtracking and the cut, context arguments, difference lists, data structures, constraint programming, meta-programming, meta-interpreters, partial evaluation, partial evaluation of meta-interpreters, efficient Prolog programming, logic program analysis.					
Prerequisites	Recommended:					
	Good knowled	ge of the foundations of Logic Programming				
	Teaching forms	at Gr	oup size	h/week	Workload[h]	CP
Format	Lecture		60	2	30 T / 45 S	2.5
	Exercises		30	2	30 T / 75 S	3.5
	T = face-to-face teaching; $S = independent study$					
Exam achievements	Oral exam (graded)					
Study achievements	Successful exercise participation (not graded)					
Forms of media						
	W. Clocksin, C. Mellish: Programming in Prolog, Springer.					
Literature	• L. Sterling, E. Shapiro (ed.): The Art of Prolog (2nd ed.) MIT					
	Press.					
	• Richard O'Keefe: The Craft of Prolog, MIT Press.					