

Module MA-INF 1318	Theoretical Aspects of Intruder Search				
Workload 180 h	Credit points 6 CP	Duration 1 semester	Frequency every year		
Module coordinator	PD Dr. Elmar Langetepe				
Lecturer(s)	PD Dr. Elmar Langetepe				
Classification	Programme M. Sc. Computer Science		Mode Optional	Semester 1.	
Technical skills	To acquire fundamental knowledge on topics and methods in theoretical and algorithmic aspects of intruder search in geometric and discrete environments;				
Soft skills					
Contents	Intruder/Evader search in geometric and discrete environments, Fire-Fighter problem, Fire Control on graphs and in the plane, Man-and-Lion problem, Two-Guards problem, Search Games, Mobile and immobile hidere, Patrolling algorithms.				
Prerequisites	none				
Format	Teaching format	Group size	h/week	Workload[h]	CP
	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					
Literature	Scientific research articles will be recommended in the lecture.				