Algorithms and Artificial Intelligence				
	Modules and ECTS			
Courses	<b>Module 1:</b> Algorithms and complexity	Module 2: Knowledge representation and artificial intelligence	Module 3: Logic, mathematics and theoretical computer science	Module 4: Programming languages and verification
Algorithms in Graph Theory	3			
Algorithmic Geometry	3			
Approximation Algorithms	3			
Komplexitätstheorie	3			
Heuristic Optimization Techniques	3			
Modeling and Solving Constrained Optimization Problems	3			
Mathematical Programming	3			
Seminar in Algorithms	3			
Networks: Design and Analysis	3			
Parallel Algorithms	3			
Fixed-Parameter Algorithms and Complexity	3			
Structural Decompositions and Algorithms	3			
SAT Solving and Extensions		3		
Preferences in Artificial Intelligence		3		
Problem Solving and Search in Artificial Intelligence		3		
Machine Learning		4.5		
Total ECTS=48	36	13.5		