Study program	mme(s): Co	omputer Science				
Level: master						
Course title: Model Theory in Computer Science						
Lecturer: Maja Pech						
Status: electiv	re					
ECTS: 6						
Requirements	S:					
	students sha		dge in model theory and will us in mathematics and computer			
	the course		will be able to formulate and to examples and to explain app			
Syllabus  The course will include:  □ Basic definitions and results (e.g. classifying structures by formulas, relation of preservation, quantifier elimination, types, etc.)  □ Classical model theoretical results (e.g. Löwenheim-Skolem theorems, back-and-forth techniques, compactness for first-order logic and consequences, etc)  □ Special topics and applications (e.g. skolemization, categoricity, etc.)						
	J. Keisler, M	l Theory, 1997. Iodel Theory, 3rd Ed., Do del theory", Springer 2000	ver 2012			
Weekly teachin	ıg load			041		
Lectures: 2	Exercises: 2	Practical Exercises:	Student research:	Other:		
	presented i		g methods supported by bear			

Lectures are presented using classical teaching methods supported by beamer presentations and continuous interaction with students. The ability of application of theoretical knowledge is checked through independent solving of exercises on two colloquia. The final exam is oral and a student is supposed to demonstrate general understanding of the presented theoretical material.

## Grading method (maximal number of points 100)

Pre-exam obligations	points	Final exam	points
Colloquium 1	20	Oral exam	60
Colloquium 2	20		