

Course description

University: <i>Comenius University in Bratislava</i>					
Faculty: <i>Faculty of Mathematics, Physics and Informatics</i>					
Course ID: <i>2-IKV-102</i>			Course name: <i>Mathematics</i>		
Educational activities: <i>exercise [en], 2h/week, presentation</i> <i>lecture [en], 2h/week, presentation</i>					
Credits: <i>4</i>					
Recommended semester: <i>1. grade, winter semester</i>					
Educational level: <i>2.</i>					
Prerequisites:					
Course requirements: <i>Student is required to achieve at least 50% of points during semester to be admitted to the final exam.</i> <i>Weight of the exam: 50%</i> <i>Grading: A > 90%, B > 80%, C > 70%, D > 60%, E > 52% points.</i>					
Learning outcomes: <i>The lectures will provide students with basics of propositional and predicate logic, linear algebra, mathematical analysis, and probability that are important for the study of informatics and its role in (computational) cognitive science. At the same time, students will learn about mathematical culture, notation, way of thinking and expressing oneself.</i>					
Course syllabus: <i>- propositional logic</i> <i>- Predicate logic</i> <i>- methods of proving</i> <i>- matrix computations, linear algebra</i> <i>- basics of mathematical analysis</i> <i>- Probability</i>					
Recommended literature: <i>Discrete and combinatorial mathematics : An applied introduction / Ralph P. Grimaldi. Boston : Pearson/Addison-Wesley, 2004</i> <i>Lineárna algebra a geometria : Cesta z troch rozmerov s presahmi do príbuzných odborov / Pavol Zlatoš. Bratislava : Albert Marenčin, 2011</i> <i>Zbierka úloh z pravdepodobnosti a matematickej štatistiky / Rastislav Potocký ... [et al.]. Bratislava : Alfa, 1986</i> <i>Diferenciálne rovnice : prvý diel : Obyčajné diferenciálne rovnice / Jur Hronec. Bratislava : Slovenská akadémia vied, 1956</i> <i>Cvičenia z matematickej analýzy II / Zbyněk Kubáček, Ján Valášek. Bratislava : Univerzita Komenského, 1996</i>					
Languages necessary to complete the course: <i>English</i>					
Notes:					
Distribution of previously achieved grades					
Total count of graded students: <i>11</i>					
A	B	C	D	E	FX
27.27%	36.36%	9.09%	9.09%	9.09%	9.09%
Lectures and exercises: <i>PaedDr. Iveta Kohanová, PhD.</i>					
Last change: <i>25.04.2014</i>					
Approved by: <i>prof. Ing. Igor Farkaš, PhD.</i>					