

COURSE DESCRIPTION

University: Comenius University Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KFChL/10-Bc/00	Course title: Selected Topics in Mathematics
Educational activities: Type of activities: practicals / lecture / seminar Number of hours: per week: 0 / 1 / 2 per level/semester: 0 / 14 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 1.	
Educational level: I.	
Prerequisites:	
Course requirements: During full-time teaching, students will write 8 to 10 tests for a total of 40 points during the semester and a written test worth of 50 points is written at the exam. Points from tests at seminars and from the current test at the exam are added together. To obtain an A rating, it is necessary to obtain at least 46 points, to obtain an B rating at least 41 points, to obtain a C rating at least 36 points, to obtain a D rating at least 31 points and to obtain an E rating at least 26 points. Scale of assessment (preliminary/final): 40/50	
Learning outcomes: After completing the course, students will master the basics of mathematical methods in the field of algebra, introduction to mathematical analysis, introduction to differential calculus to the appropriate extent necessary for the study of related specialised subjects.	
Class syllabus: Fundamentals of mathematical logic and introduction to set theory, Linear algebra - expressions, equations and inequalities. Functions - properties of functions, elementary real functions. Sequences and numerical series - limits of sequences, power series, approximation of functions. Differential calculus - limits and con-tinuity of a function, derivation, differential and difference. Mathematical analysis of real functions. Lectures from the subject Selected Chapters on Mathematics are supplemented by a seminar, where students verify their theoretical knowledge and acquire skills in solving examples focused on scientific applications.	
Recommended literature: V. Frecer: Matematika pre farmaceutov, UK, Bratislava, 2014. M. Šabo: Matematika I, STU, Bratislava, 2009. M. Jasem, Ľ. Horanská: Matematika I. Zbierka úloh, Bratislava, STU, 2010.	
Languages necessary to complete the course: Slovak language	
Notes:	

Past grade distribution						
Total number of evaluated students: 357						
A	ABS	B	C	D	E	FX
17,65	0,0	15,13	12,04	18,49	31,37	5,32
Lecturers: doc. Mgr. Marcela Chovancová, PhD., Mgr. Katarína Želinská						
Last change: 29.03.2022						
Approved by: doc. Mgr. Marcela Chovancová, PhD.						