

## COURSE DESCRIPTION

<b>Academic year:</b> 2022/2023	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Pharmacy	
<b>Course ID:</b> FaF.KFT/08-Mgr-A/20	<b>Course title:</b> Pharmacology (1)
<b>Educational activities:</b> <b>Type of activities:</b> lecture / laboratory practicals <b>Number of hours:</b> <b>per week:</b> 2 / 3 <b>per level/semester:</b> 28 / 42 <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 6	
<b>Recommended semester:</b> 4.	
<b>Educational level:</b> I.II.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> During the semester, students pass 2 midterm tests; to pass the test at least 60% of maximum score is required. Successful completion of the semester is followed by a comprehensive exam test. The student must demonstrate mastery of at least 60% of the required knowledge. The exam result is graded: A (at least 92%), B (at least 83%), C (at least 76%), D (at least 68%), E (at least 60%) and Fx (less than 60% of the maximum number points). Scale of assessment (preliminary/final): 0/100	
<b>Learning outcomes:</b> Pharmacology is a profile subject of pharmaceutical study which is linked with both pharmacy and medicine. The subject is part of five leading subjects included into a complex state exam finishing the study at Faculty of Pharmacy.	
<b>Class syllabus:</b> Introduction to the study, general principles how drugs act. Drug toxicity. Pharmacodynamics and pharmacokinetics as basic parts of pharmacology. Receptor theory. Agonism, antagonism, receptor proteins, cellular mechanism of intercellular signal transduction. Desensitization and tachyphylaxis. Drug interactions. Adverse reactions to drugs. Basic pharmacokinetic processes and parameters. Autonomic nervous system. Adrenergic and cholinergic transmission. Neuromuscular blocking drugs, skeletal muscle relaxants. Peripheral autacoids.	
<b>Recommended literature:</b> Ritter J., Flower R. et al.: Rang and Dale's Pharmacology, 9th ed. London, Elsevier, 2019 Lüllmann, H., Mohr, K., Wehling, M.: Pharmacology and Toxicology. Thieme, 2004 Katzung, B. G.: Basic and Clinical pharmacology. 14e McGraw-Hill, 2018	
<b>Languages necessary to complete the course:</b> English	
<b>Notes:</b>	

**Past grade distribution**

Total number of evaluated students: 38

A	ABS	B	C	D	E	FX
2,63	0,0	28,95	28,95	7,89	15,79	15,79

**Lecturers:** Mgr. Peter Vavrinec, PhD., Mgr. Diana Vavrincová, PhD., doc. PharmDr. Marek Mátuš, PhD., prof. PharmDr. Ján Klimas, PhD., MPH, doc. PharmDr. Peter Křenek, PhD., PharmDr. Zuzana Kiliánová, PhD., doc. PharmDr. Anna Paul Hrabovská, PhD., doc. RNDr. Ingrid Tumová, CSc., prof. RNDr. Magdaléna Kuželová, CSc., prof. PharmDr. Adriana Duriš Adameová, PhD., Mgr. Lenka Bies Piváčková, PhD., PharmDr. Gabriel Dóka, PhD., PharmDr. Tomáš Rajtík, PhD.

**Last change:** 01.12.2021**Approved by:** doc. PharmDr. Marek Mátuš, PhD., prof. PharmDr. Ján Klimas, PhD., MPH