

University: Comenius University in Bratislava	
Faculty: Faculty of Pharmacy	
Course Code: KFT/08-Mgr-A/00	Course Name: Pharmacology and Toxicology 1
Type, Extent and Method of Educational Activities: lectures 2h/week, seminars 3h/week	
Number of Credits: 8	
Recommended Study Semester/Trimester: 6 th semester	
Study Level: 2 (master)	
Prerequisite Courses: none	
Conditions for Course Completion: to pass all scheduled tests, each minimally 60% rate, personal attendance at all seminars, satisfactory presentation of all assignment reports	
Results of Education: : Pharmacology and toxicology 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 Pharmaceutical faculty.	
Course Description: 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 .	
Recommended Literature: Ritter J., Flower R. et al.: <i>Rang and Dale's Pharmacology</i> , 9 th ed. London, Elsevier, 2019 Lüllmann, H., Mohr, K., Wehling, M.: <i>Pharmacology and Toxicology</i> . Thieme, 2004 Katzung, B. G.: <i>Basic and Clinical pharmacology</i> . 14e McGraw-Hill, 2018	
Language Requirements: English	
Notes:	
Course Evaluation: total number of students since the course introduction: 360 A – 7 %, B – 19 %, C – 49 %, D – 23 %, E – 1 %, Fx – 0 %	
Teachers: doc.Křenek, doc.Máťuš, prof.Klimas, prof. Kuželová, prof.Duriš-Adameová, dr.Ondriašová, doc.Paul-Hrabovská, dr. Killiánová, dr. Vavrínek, dr. Vavřincová, dr. Dóka	
Date of Last Update: May 2021	
Approved by: doc. PharmDr. Marek Máťuš, PhD.	