



Study program: Integrated Academic Studies in Pharmacy			
Course title: Special Pharmacology I			
Teacher: Aleksandar L. Rašković, Zdenko S. Tomić, Velibor M. Vasović, Isidora N. Samojlik, Olga J. Horvat, Saša N. Vukmirović, Boris Ž. Milijašević, Vesna M. Mijatović Jovin, Nebojša P. Stilinović, Maja P. Đanić, Ana D. Tomas Petrović			
Course status: compulsory			
ECTS Credits: 6			
Condition: General Pharmacology			
Course aim To give students basic knowledge about drugs that acts in central nervous system (CNS) and drugs used in therapy of cardiovascular and blood diseases – their mechanisms and sites of action, classification in therapeutic groups (together with the most important group representatives), indications, adverse drug reactions, interactions and contraindications.			
Expected outcome of the course: At the end of the teaching process, students should know why, how and when to apply the drugs that act through CNS and drugs that affect cardiovascular system and blood; their characteristics, passage through the body, place and mechanism of action and danger of their application.			
Course description			
<i>Theoretical education</i> Transmitters and receptors in the nervous system. Anxiolytics and hypnotics. Antidepressants and mood stabilizers. Neuroleptics. Psychoactive substances. Treatment of degenerative diseases of CNS (Alzheimer's and Parkinson's disease). General and local anaesthesia. Strong analgesics. Non-steroidal anti-inflammatory drugs. Treatment of epilepsy. Drugs used in the treatment of cardiovascular diseases and dysfunctions. Thrombolytics, antiaggregative drugs, anticoagulants. Hypolipemics. Treatment of anaemia.			
<i>Practical education</i> Overview of registered drugs according to pharmacotherapeutic groups discussed. Filling out the application form for adverse drug reactions.			
Literature			
<i>Compulsory</i> 1. Brenner GM, Stevens C. Pharmacology, 6th edition. Elsevier, 2022. 2. Ritter J, Flower R, Henderson G, Loke Y.K, MacEwan D, Rang H. Rang and Dale's Pharmacology. 9 th Edition, Elsevier, 2019;			
<i>Additional</i> 1. Katzung BG. Basic and Clinical Pharmacology. 14 th Edition, McGraw-Hill Education, 2017; 2. BNF. British Medical Association and Royal Pharmaceutical Society of Great Britain (any edition newer than 2015)			
Number of active classes	Theoretical classes: 60	Practical classes: 30	
Teaching methods Theoretical and practical			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	80
Practices	5	Oral	
Colloquium	2x45	
* If the student does not pass both colloquiums, he/she should take the exam in written form			