



Study program: Integrated Academic Studies in Pharmacy			
Course title: Special Pharmacology II			
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: 5			
Condition: General Pharmacology, Special Pharmacology I (for taking the final exam)			
Course aim To give students basic knowledge about antimicrobial and chemotherapeutic drugs, as well as the drugs used in therapy of respiratory, gastrointestinal and endocrinology diseases and dysfunctions – 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 teaching process, students should know why, how and when to apply antimicrobial, antiparasitic, antiviral and antifungal drugs, drugs used in treatment of respiratory, gastrointestinal and endocrinology diseases and dysfunctions; their characteristics, passage through the body, place and mechanism of action and danger of their application.			
Course description <i>Theoretical education</i> Antimicrobial agents - an introduction, division, resistance, principles of dosage regimens. Beta lactam antibiotics. Beta lactamase inhibitors. Polypeptides. Glycopeptides. Lipopeptides. Macrolides. Ketolides. Pyranosides. Aminoglycosides. Tetracyclines. Glycylcyclines. Amphenicols. Spectrogramines. Oxazolidines. Inhibitors of bacterial DNA. Quinolones. Sulfonamides and trimethoprim. Anti-tuberculosis. Antibacterial azoles. Antimycotics. Antivirals. Antiparasitic drugs. Antitumor drugs. Immunomodulators. Treatment of diabetes. Treatment of osteoporosis. Therapy of diseases of thyroid gland. Therapeutic use of steroid hormones. Drugs in the treatment of respiratory disorders and diseases. Drugs in the treatment of gastrointestinal disorders and diseases. <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 G. and Stevens C. Brenner and Stevens' Pharmacology, 5th Edition, Elsevier, 2017; 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: 45	Practical classes: 30
Teaching methods Theoretical and practical			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	
Practices	5	Oral	50
Colloquium	2x20	