

<b>Study program:</b> Integrated academic studies in pharmacy			
<b>Type and level of the study program:</b> integrated academic studies			
<b>Course title: General pharmacology (PhIII-GPHAR)</b>			
<b>Teacher:</b> Momir M. Mikov, Velibor M. Vasović, Ana J. Sabo, Zdenko S. Tomić, Aleksandar L. Rašković, Isidora N. Samojlik, Olga J. Horvat, Saša N. Vukmirović, Boris T. Milijašević, Vesna M. Mijatović, Nebojša P. Stilinović			
<b>Course status:</b> compulsory			
<b>ECTS Credits: 6</b>			
<b>Condition:</b> Physiology			
<b>Course aim</b> Students are offered basic knowledge on pharmaceutical preparations and prepared for better understanding of their actions in different systems.			
<b>Expected outcome of the course</b> At the end of this course students should know why, how, and when to use a certain medication; they should also learn general data on movement of drugs in the body, their location and mechanisms of action, interactions and adverse effects.			
<b>Course description</b> <i>Theoretical education:</i> History of pharmacology. Classification into disciplines. Medication and poison. Administration of drugs. Drug dosage. Therapeutic index and therapeutic properties of drugs. Movement of drugs in the body. Transport of drugs through biomembranes. Absorption and distribution of drugs. Excretion of drugs. Drug metabolism. Indication and inhibition of enzymes. Factors which change drug metabolism. Ways of drug actions. Sites of drug actions. Mechanisms of drug actions. Receptors. G-protein. Drug interactions. Synergism and antagonism. Drug use in special conditions. Pharmacokinetics. Adverse drug effects. Drug addiction. Processing of seminar papers. Interactive lecture with students regarding a pharmacological problem.  <i>Practical education: exercises, other forms of education, research related activities:</i> Types of drug administration. Drug dosage. Drug interactions. Synergism and antagonism. Drug use in special conditions. Drug prescription. Different drug forms. Adverse drug effects. Drug addiction.			
<b>Literature</b> <i>Compulsory</i> 1. Rang HP, Dale MM, Ritter JM, Moore PK. Pharmacology. Churchill Livingstone, Edinburgh, New York, 2003. 2. Brenner GM, Stevens C. Pharmacology, 4 <sup>th</sup> edition. Elsevier, 2012 <i>Additional</i> -			
<b>Number of active classes</b>			Other:
Lectures: 60	Practice: 30	Other types of teaching: Research related activities:	
<b>Teaching methods</b> Theoretical and practical			
<b>Student activity assessment (maximally 100 points)</b>			
<b>Pre-exam activities</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	5	Written*	80
Practices	15	Oral	
Colloquium*	2X40	.....	
*if the students does not pass both colloquiums, he/she should take the exam in written form			