



<b>Study program:</b> Integrated academic study of Pharmacy			
<b>Course title:</b> Pharmaceutical Informatics			
<b>Teacher:</b> Božana S Nikolić, Zdenko S Tomić			
<b>Course status:</b> elective			
<b>ECTS credits:</b> 3			
<b>Condition:</b> -			
<b>Course aim:</b> To familiarize students with good information practices in the promotion of rational pharmacotherapy (safe, effective and economically justified).			
<b>Expected outcome of the course:</b> Upon completion of the course, students will be trained to use authoritative sources of information in solving problems related to drug use, apply the concept of evidence-based pharmacotherapy, collect, evaluate and report information on the safe and reliable use of the drug to patients and health professionals.			
<b>Course description</b>			
<i>Theoretical education</i>			
<ol style="list-style-type: none"> <li>1. Informatics in medicine and pharmacy, the importance of information for healthcare</li> <li>2. Drug information: legal aspects</li> <li>3. Drug information: ethical aspects</li> <li>4. Concept of evidence-based pharmacotherapy</li> <li>5. Design of preclinical and clinical drug trials</li> <li>6. Tools to assessment quality of study methodology</li> <li>7. Descriptive statistics in clinical therapy trials: data interpretation</li> <li>8. Inferential statistics in clinical therapy trials: data interpretation</li> <li>9. Tools to assessment clinical significance of study results</li> <li>10. Tools for assessment adverse drug reactions</li> </ol>			
<i>Practical education</i>			
<ol style="list-style-type: none"> <li>1. Introduction to the pharmaceutical informatics, search and use of information</li> <li>2. The application of the concept of evidence based pharmacotherapy – critical assessment of guide</li> <li>3. The application of the concept of evidence based pharmacotherapy – critical assessment of efficiency study</li> <li>4. The application of the concept of evidence based pharmacotherapy – critical assessment of safety study</li> <li>5. The application of the concept of evidence based pharmacotherapy – critical assessment of pharmacoeconomic study</li> <li>6. Pharmacoinformatics center in a health system, pharmaceutical industry, university, regulatory authorities: survey of activities</li> <li>7. Example of drug information consult documentation form, standard questions</li> <li>8. Example drug monograph</li> <li>9. Identifying information regarding the new, innovative drugs</li> <li>10. Preparing a bibliography</li> </ol>			
<b>Literature</b>			
<i>Compulsory</i>			
<ol style="list-style-type: none"> <li>1. Gabay M. The clinical practice of drug information. Jones &amp; Bartlett Learning, 2015.</li> </ol>			
<i>Additional</i>			
<ol style="list-style-type: none"> <li>1. Internal script</li> </ol>			
<b>Number of active classes</b>		<b>Theoretical classes:</b> 30	<b>Practical classes:</b> 15
<b>Teaching methods:</b> Lectures, interactive classes, practical classes, case analysis			
<b>Student activity assessment (maximally 100 points)</b>			
<b>Pre-exam activities</b>	<b>Points</b>	<b>Final exam</b>	<b>Points</b>
Lectures	10	Written	50
Practices	20	Oral	
Colloquium		.....	

Essay	20		
-------	----	--	--