Study program: Integrated academic studies of	f Pharmacy		
Type and level of the study program: integrated academic studies			
Course title: CLINICAL PHARMACY (PhIV-CPHAR)			
Teacher: Jovan K. Popović, Božana S. Nikolić			
Course status: compulsory			
ECTS Credits: 5			
Condition: Pharmacokinetics (exam taking)			
Course aim			
Adoption of the principles of rational pharmacotherapy and their application in contemporary medical and pharmaceutical practice.			
Expected outcome of the course:			
After passing the exam students are expected to apply the concept of medicine / pharmacy based on evidence, critical evaluation of sources of			
information about medicines, applying the principles of clinical pharmacokinetics in order to implement rational pharmacotherapy, identify, evaluate			
and solve problems related to drug use, apply the individual approach to the patient, communicate with health professionals and patients on rational			
pharmacotherapy and health promotion.			
Upon completion of the course, the student is expected to be able to implement, monitor, evaluate and, where necessary, propose modification			
therapy in order to ensure rational pharmacother	apy		
Course description			
Theoretical education			
1. The aim and significance of clinical pharmacy			
 The interpretation of the results of laboratory analysis Parenteral and enteral nutrition 			
 Parenteral and enteral nutrition Development of new drugs and clinical testing of drugs 			
 Sources of information about medicines 			
 6. Pharmacy-based evidence (EBP, EBM) 			
7. Clinical auditt			
8. Therapeutic drug monitoring			
9. Individualization of pharmacotherapy			
10. Compliance (adherence)			
11. Safety of medicines - pharmacovigilance.			
12. Pharmacoeconomic aspects (Rational pharmacotherapy.			
13. Rational pharmacotherapy (specifics according to drug groups)			
14. Specific pharmacotherapy of specific age groups			
15. Specific pharmacotherapy of specific physiological and pathophysiological conditions			
Practical education: exercises, other forms of education, research related activities			
1. Communication Skills			
2. Rational pharmacotherapy (specific groups of drugs and pathophysiological states)			
3. Specific pharmacotherapy in elderly patients, children, patients with renal and hepatic failure, pregnant women, breast-feeding women			
 Organization and implementation of clinical Audits Identifying, measuring and comparing costs and benefits of therapeutic programs 			
 Generating ind comparing costs and benefits of therapeutic programs Using independent information about medicines 			
 Critical analysis of clinical studies, meta-analysis and systematic medical check-ups 			
Literature			
Compulsory			
1. Walker R, Edwards C. Clinical Pharmacy and Therapeutics, 3rd edition. Churchill Livingstone, 2004.			
Additional			
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Number of active classes			Other:
	her types of teaching:	Research related activities:	
45 30			
Teaching methods			
Lecture, interactive, Internet use, e-learning, practical classes, workshops, learning based on computational problems, the analysis of cases from the			
practice, participation in research and development projects.			
	Student activity assessment (
Pre-exam activities	points	Final exam	points
Lectures	25	Written	50
Practices	25	Oral	
Colloquium			
Essay			