

Study program : PHARMACY			
Type and level of studies: Integrated academic studies, Level 1/5			
Course unit: PRACTICAL WORK IN HOSPITAL PHARMACIES			
Teacher in charge : Professor Mirjana Veselinovic, MD, DSc, MSc			
Language of instruction : ENGLISH			
ECTS: 7			
Prerequisites: Completed course in practice in hospital pharmacies			
Semester: SUMMER SEMESTER			
Course unit objective : Acquiring knowledge and skills of administering drugs in hospital practice.			
Learning outcomes of Course unit:			
<ul style="list-style-type: none"> • Skills of appropriate planning, procurement, storage and dispensing of medicines in the hospital • Knowledge about keeping professional records in pharmacies, regulations and legal regulations related to hospital pharmacies • Knowledge about medical treatment of the most prevalent diseases in population (e.g. diabetes, asthma, COPD, hypertension, heart failure, rheumatoid arthritis, GERD, etc.) • Knowledge about clinically important adverse drug reactions and drug-drug interactions • Skills of making appropriate drug choices and tailoring dosage regimens according to the needs of patients 			
Course unit contents			
<i>Theoretical classes</i>			
<i>Organization of work in the hospital pharmacy, regulations and procedures related to the procurement, storage and dispensing of medicines. Treatment of systemic connective tissue diseases and allergic diseases. Treatment of cardiovascular diseases (heart failure, angina pectoris, atrial fibrillation). Treatment of respiratory diseases (asthma, COPD). Treatment of gastrointestinal diseases (peptic ulcer disease, GERD). Treatment of hematological diseases (lymphoma, leukemia). Prophylaxis and treatment of skin infections. Prophylaxis and treatment of renal failure. Clinically important adverse drug reactions and drug-drug interactions.</i>			
<i>Practical classes</i>			
<i>Management professional records in hospital pharmacy. Production, packaging and labeling of main drugs- triturata powders based on prescription. Principles of tailoring dosage regimens according to a patient's needs. Dosing in renal and liver failure. Discovering potential drug-drug and drug-food interactions. Causal interpretation of adverse events.</i>			
Literature			
<ul style="list-style-type: none"> • Atkinson JA, Huang SM, Lertora J, Markey SP. Principles of Clinical Pharmacology, 3rd ed., Academic Press, 2012. • Katzung B, Trevor A. Basic & Clinical Pharmacology, 13th edition, McGraw-Hill Medical, 2014. • J. Larry Jameson, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, Dan L. Longo, Joseph Loscalzo. Harrison's principles of internal medicine, 20th edition, McGraw-Hill Medical, 2019. 			
Number of active teaching hours			Other classes
Lectures: 15	Practice: 30	Other forms of classes:	Independent work: 15
Teaching methods: Lectures, practice in a clinic, clinical problems solving			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	25	oral examination	
practical classes/tests	45	written examination	30
Seminars/homework		
Project			
Other			

Grading system		
Grade	No. of points	Description
10	95-100	Excellent
9	85 – 94	Exceptionally good
8	75 – 84	Very good
7	65 – 74	Good
6	55 – 64	Passing
5	< 55	Failing

(Table 5.2) Course unit description