

Study program: PHARMACY
Type and level of studies: Integrated academic studies, Level 1/2
Course unit: INTRODUCTION TO PHARMACEUTIC PRACTICE
Teacher in charge : Professor Marina Kostić, MD, PhD
Language of instruction: ENGLISH
ECTS: 7
Prerequisites: Enrolled in first year of faculty of Integrated academic studies of pharmacy
Semester: WINTER SEMESTER
Course unit objective: Acquiring knowledge and skills of different areas of pharmaceutical practice. To enable students to understand the scope of the pharmacist's practical work and its roles and activities as in the health care system as also in industrial pharmacy, in the field of research of new drugs as also in special regulations process which are aimed to obey and implement procedures for the quality, safe and efficacious medicinal products and medical devices to the population.
<p>Learning outcomes of Course unit:</p> <ul style="list-style-type: none"> • Knowledge about history of pharmacy, organization of health care system in Republic of Serbia and European Union, knowledge and understanding of needs from patients perspective within health care system, knowledge about new roles and responsibilities of the pharmacist in modern health care system • Knowledge about processes of discovering of new drugs, organization of pretclinical and clinical trials, knowledge about role of pharmacist in regulative procedures of registration of new drugs, knowledge about roles of clinical pharmacist in processes of managing of drugs within hospitals, knowledge about role of pharmacist as in researches from pharmacoepidemiology, pharmacoeconomics and pharmacovigilance as also in applying skills and knowledge from this scientific disciplines in order to improve health care system, knowledge about radiopharmacy, knowledge about drug interactions. • Knowledge about evidence based pharmacy, skills in working in computer programs as WORD and POWER POINT are, knowledge and skills about processes of searching web basis dedicated to pharmacy and medicine, knowledge about procedures of validating different studies: therapeutic, diagnostic studies, systematic reviews, meta analysis.
<p>Course unit contents</p> <p><i>Theoretical classes</i> <i>Theoretical classes include lessons about history of pharmacy, health policy and health care system. Principles of communications pharmacist- patient. Pharmacology as discipline. Discovering of new drugs, basic from pretclinical and clinical studies and processes of authorization of new drug. Basics of pharmacoepidemiology, pharmacovigilance and pharmacoeconomics. Basics of therapeutic drug monitoring. Basics of radiopharmacy, preparing of cytotoxic drugs and radiopharmaceuticals. Basics of evidence based pharmacy. The role of pharmacist in health care system and interaction of pharmacist and other health care professionals in managing health care.</i></p> <p><i>Practical classes</i> <i>Communications with patients. Work in WORD, POWER POINT program. Preparing Smpc file. Analysis of law on medicine and medical devices. Analysis of role of pharmacist in pretclinical studies and clinical trials. Identifying individual drug using ATC code. Analysis of drug consumption and utilization using ATC DDD concept. Casual interpretation of adverse event of drugs. Analysis of pharmacoeconomics characteristics of new drugs. Discovering potential drug-drug interactions, drug-food interactions. Analysis of role and responsibilities of pharmacist in preparing of cytotoxic drugs and radiopharmaceuticals.</i></p>
<p>Literature</p> <ul style="list-style-type: none"> • Edwards C, Stillman P. Minor Illness Or Major Disease: Responding to Symptoms in Pharmacy. 3rd revised ed., Pharmaceutical Press, 2000. • Marthin S. Hospital Pharmacy. 2nd ed. Pharmaceutical Press, 2011 • Langley CA., Belcher D. Applied Pharmaceutical Practice. 1st ed., Pharmaceutical Press, 2008. • Robin H. Handbook of Pharmacy Health Education. 2nd ed. Pharmaceutical Press, 2001

Number of active teaching hours				Other classes
Lectures: 30	Practice: 30	Other forms of classes: 15	Independent work: 150	
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	30	oral examination		
practical classes/tests	40	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