



<b>Study program:</b> Integrated Academic Studies in Pharmacy
<b>Course title:</b> Pharmaceutical Practice
<b>Teacher:</b> Mladena N. Lalić-Popović, Jelena N. Jovičić-Bata, Neda S. Gavarić, Nataša P. Milošević
<b>Course status:</b> Compulsory
<b>ECTS Credits:</b> 2
<b>Condition:</b> Pharmaceutical Chemistry II, Pharmacognosy II, Pharmaceutical Technology II
<p><b>Course aim</b></p> <p>The information of the role and place of the pharmacist in the primary, secondary and tertiary level of the health protection system, drug lists and medical devices, adverse reactions and counterfeited drugs reporting. Introduction to administrative process for the pharmaceutical sector, the methods and principles of good practices in pharmacy.</p>
<p><b>Expected outcome of the course:</b></p> <p>Pharmacy students will acquire knowledge about the principles in pharmaceutical health protection system activity that is a part of health care protection and health care system of Serbia.</p>
<p><b>Course description</b></p> <p><i>Theoretical education</i></p> <ol style="list-style-type: none"> <li>1. Defining and understanding the Health care system of Serbia</li> <li>2. Essential list of drugs</li> <li>3. Hospital and national drug lists</li> <li>4. Public and hospital pharmacies as part of the Health care system of Serbia</li> <li>5. The activities of the pharmacist in the daily practice of public pharmacy (planning, drugs supply, storage, dispensing)</li> <li>6. Activities of the pharmacist in the daily practice of hospital pharmacy</li> <li>7. Pharmaceutical products- groups, formulations and classifications</li> <li>8. Medical devices and healthcare products (preventive, diagnostic, therapeutic and products for rehabilitation)</li> <li>9. Dispensing of prescribed trade drugs, medical devices and OTC products</li> <li>10. Financial calculations, refundations and associated administrative work</li> <li>11. Compounding of magistral and galenic preparations in public and hospital pharmacy</li> <li>12. Communication in pharmaceutical care (types and methods of establishment)</li> <li>13. Patients counseling, pharmaceutical anamnesis, deposition of medical therapy errors</li> <li>14. Reliable sources of information in pharmacy practice</li> <li>15. Professional opportunities for employment of pharmacists</li> </ol> <p><i>Practical education</i></p> <ol style="list-style-type: none"> <li>1. Introduction to the essential list WHO and positive list of HF of the Republic of Serbia</li> <li>2. Simulation of practice of pharmacists in public pharmacy</li> <li>3. Simulation of practice of pharmacists in hospital pharmacy</li> <li>4. Practical work with drug registers and therapeutic guidelines</li> <li>5. Learning through practical work about the instructions for use of drugs that are intended for physicians and patients</li> <li>6. Workshop - Simulation of prescribed and non-prescribed drugs dispensing</li> <li>7. Workshop - Simulation of communication establishing with various types of patients (elderly, children, pregnant women...)</li> <li>8. Workshop - Simulation of various types of patients counseling (cancer patients, HIV, pregnant women, elderly, children...)</li> <li>9. Workshop - Finding of various sources of information and assessment of their importance and significance by the students</li> <li>10. Discussion about selected areas of pharmacy that students intend to practice</li> </ol>
<p><b>Literature</b></p> <p><i>Compulsory</i></p> <ol style="list-style-type: none"> <li>1. Remington Science and practice of Pharmacy, Lippincott Williams and Wilkins, 21th ed. 2008</li> </ol> <p><i>Additional</i></p> <ol style="list-style-type: none"> <li>1. The Law on Healthcare, Official Gazette, Republic of Serbia, 25/2019</li> <li>2. The Law on Medicines and Medical Devices, Official Gazette, Republic of Serbia, 30/2010, 107/2012, 113/2017, 105/2017</li> <li>3. Meldrum H., Interpersonal communication in pharmaceutical care, Pharmaceutical Products Press, 1994.</li> <li>4. Smith MC., Wertheimer Al., Social and Behavioral Aspects of Pharmaceutical Care, New York, London, Pharm. Products Press,</li> </ol>

1996.

5. Anderson S., Making medicines, A Brief History of Pharmacy and Pharmaceuticals 1st. Ed. Pharmaceutical Press, 2005.

**Number of active classes**

**Theoretical classes: 30**

**Practical classes: 30**

**Teaching methods**

Lectures, interactive classes, practical classes (workshops, case studies from pharmaceutical practice, simulation of prescription products dispensation, sourcing of calculations)

**Student activity assessment** (maximally 100 points)

<b>Pre-exam activities</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	10	Written	50
Practices	10		
Colloquium			
Essay	30		