

| | | | | |
|--|-----------------------|-------------------------------|-------------------------|----------------------|
| Study program : INTEGRATED ACADEMIC STUDIES – MASTER OF PHARMACY | | | | |
| Type and level of studies: Integrated academic studies | | | | |
| Course unit: Dispensing medicines | | | | |
| Teacher in charge : Milena Jurisevic, PhD, MPharm | | | | |
| Language of instruction : ENGLISH | | | | |
| ECTS: 5 | | | | |
| Prerequisites: Enrolled in the 3 th year, the 6 th semester of integrated academic pharmacy studies | | | | |
| Semester: SUMMER SEMESTER | | | | |
| Course unit objective: <i>Acquiring knowledge and skills of drug dispensing and the highest professional standards in drug dispensing practice. Students should be able to consult patients for the practical application of drugs that are most often used in practice and master the systems of dispensing drugs in health care institutions.</i> | | | | |
| Learning outcomes of Course unit: | | | | |
| <ul style="list-style-type: none"> • Knowledge of recipe control, drugs dispensing phases, labeling prescription medications, pharmacist responsibilities for dispensing controlled substances, medical dosage calculations and formulas, principal routes and sites of drug administration, drug distribution systems in hospital, Unit dose drug distribution, automatic dispensing systems, dispensing errors and safe medication storage systems. • Knowledge of improving dispensing and counseling practices for therapies of the most prevalent diseases (diabetes, asthma, hypertension, heart failure, coronary heart disease, schizophrenia, depression), contagious diseases (bacterial and fungal infections). • Skills necessary for pharmacist-patient communications, promoting health in public pharmacy, rational drug usage, assessing the patient's understanding of prescriptions and OTC therapies, assessment of patient understanding of self-monitoring therapy | | | | |
| Course unit contents | | | | |
| <p>Theoretical classes: <i>Phases in drug dispensing; recipe control; checking the availability of the medicine in the pharmacy, dosage regimen, interactions, contraindications and indications of the drug being dispensed. Verbal and nonverbal communication skills with patient - principles; establishing contact, active listening, reaching an agreement with the patient on how to use the drug. Drug distribution systems in hospital; Traditional system dispensing of medicines; Unit dose drug distribution; Automatic dispensing systems; Dispensing errors and safe medication storage systems. Improving dispensing and counseling practices for Diabetes therapy. Improving dispensing and counseling practices for corticosteroid therapy. Improving dispensing and counseling practices for asthma treatment. Improving dispensing and counseling practices for angina pectoris treatment. Improving dispensing and counseling practices for anticoagulant therapy. Improving dispensing and counseling practices for treatments of bacterial infections. Improving dispensing and counseling practices for schizophrenia and depression therapies.</i></p> <p>Practical classes: <i>Verification of identification data on prescription; detection of irregularities in the prescription; training communicating with patients; practical dispensing of drugs to patients; ménage medical dosage calculations and formula; practical strategies for safe and effective delivery of aerosolized medications; practical application of subcutaneous injections; discovering potential drug interactions; practically solving given clinical problem.</i></p> | | | | |
| Literature | | | | |
| <ul style="list-style-type: none"> • Zgarrick D, Desselle S, Alston G, Moczygamba L. Pharmacy Management: Essentials for All Practice Settings, Fifth Edition 5th Edition. New York: McGraw-Hill, 2020. • Whittlesea C, Hodson K. Clinical Pharmacy and Therapeutics. 6th Edition Elsevier; 2018. • Katzung B, Trevor A. Basic & Clinical Pharmacology, 14th edition, McGraw-Hill Medical, 2018. • Rang & Dale. Pharmacology, 9th edition, Elsevier, 2020. | | | | |
| Number of active teaching hours | | | | Other classes |
| Lectures: 30 | Practice: 15 | Other forms of classes: 15 | Independent work: 90 | |
| Teaching methods: Lectures, 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 | | written examination | 70 |
| Seminars/homework | | | |
| Project | | | |
| Other | | | |
| Grading system | | | |
| Grade | No. of points | Description | |
| 10 | 91-100 | Excellent | |
| 9 | 81 – 90 | Exceptionally good | |
| 8 | 71 – 80 | Very good | |
| 7 | 61 – 70 | Good | |
| 6 | 51 – 60 | Passing | |
| 5 | < 51 | Failing | |

(Table 5.2) Course unit description

