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| **Course code:**  **\*** | **Course title:**  **PHARMACOLOGY II** | | |
| **Level:**  **Undergraduate** | **Year:**  **III** | **Semester:**  **VI** | **ECTS credits:**  **4** |
| **Status:**  **Obligatory** | **Number of hours weekly:**  **3+3** | | **Total hours of teaching: 90** |
| **Teaching staff:** | Fahir Bečić, PhD, full professor  Nermina Žiga-Smajić, PhD, assistant professor  Belma Pehlivanović, MPharm, teaching and research assistant  Dina Lagumdžija, MPharm, teaching and research assistant | | |
| **1. Course objectives:** | Introducing students to the basics needed for their future practical work as pharmacists, in terms of having adequate knowledge of special pharmacology for proper prescribing and control of drugs. | | |
| **1.1. Curriculum:**  **a) Lectures:**  Hypnotics, sedatives and anxiolytics. Antipsychotics, antidepressants and stimulants. Drugs for the treatment of heart failure. Antiarrhythmic drugs. Pharmacology of the central nervous system (seminar). Drugs for the treatment of ischaemic heart disease. Antihypertensive drugs. Pharmacology of the cardiovascular system (seminar). Pharmacology of the blood. Tissue hormones and allergies (seminar). Pharmacology of the respiratory system (seminar). Pharmacology of the gastrointestinal system (seminar). Hormones of the pituitary gland; hormones of the thyroid gland; male and female sex hormones. Hormones of the adrenal glands; hormones of the pancreas and antidiabetic drugs. Immunosuppressives and antifungal drugs. Hormonal therapy (seminar).  **b) Practical work:**  Prescribing of solid dosage forms. Prescribing of liquid dosage forms for parenteral administration; inhalation. Prescribing of liquid and solid dosage forms for transdermal and transmucosal administration. Prescribing of liquid dosage forms for oral administration; adjuvants. Choice of L-drug for the treatment of insomnia and anxiety. Choice of L-drug for the treatment of angina pectoris and myocardial infarction. Choice of L-drug for the treatment of hypertension. Exercises with simulated patients (hypertension, insomnia, anxiety). Choice of L-drug for the treatment of *Helicobacter pylori* infection. Choice of L-drug for the treatment of asthma in children. Type II diabetes mellitus therapy (case study). Exercises with simulated patients (asthma, type II diabetes mellitus). | | | |
| **1.2. Learning outcomes:** | Students are expected to gain skills and knowledge in contemporary theoretical propositions in the field of pharmacology as well as techniques and skills for experimental work. | | |
| **2. Course organization:** | | | |
| **2.1. Structure of the course:** | 1. Lectures and seminars  2. Practical work and case studies | | 1. 50%  2. 50% |
| **2.2. Grading:** | 1. Attendance and participation in classes  2. Homeworks  3. Colloquiums, programs, seminars, presentations  4. First term (partial) exam (first colloquium)  5. Second term (partial) exam (second colloquium)  6. Final oral exam | | 1. 5%  2. 10%  3. 10%  4. 20%  5. 20%  6. 35% |
| **3. Literature:** | | | |
| Mandatory:   1. Rang, H.P., Dale, M.M., Ritter, J.M. and Moore, P.K. eds., (2009). Pharmacology. 7th ed. London: Churchill Livingstone.   Additional:   1. Katzung, B.G., Masters, S.B. and Trevor, A.J. eds., (2012). Basic and Clinical Pharmacology. 12th ed. New York: McGraw Hill. | | | |