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| **Course code:** **\***  | **Course title:****PHARMACOLOGY I** |
| **Level:** **Undergraduate** | **Year:** **III**  | **Semester:** **V** | **ECTS credits:****4** |
| **Status:****Obligatory** | **Number of hours weekly:** **3+2** | **Total hours of teaching: 75** |
| **Teaching staff:** | Fahir Bečić, PhD, full professorNermina Žiga-Smajić, PhD, assistant professorBelma Pehlivanović, MPharm, teaching and research assistantDina 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:**Introduction to pharmacology; the concept of drugs. Basics of pharmacodynamics. Basics of pharmacokinetics. Interactions and adverse effects of drugs. Toxicology. Pharmacology of pain and inflammation; analgetic drugs. Drugs for the treatment of infections. Drugs for the treatment of tuberculosis. Chemotherapy of malignant diseases. General and local anaesthetics.**b) Practical work:**Legal regulations for prescribing of drugs, poisons and narcotics. Drug information sources. Basics of experimental pharmacology. Experimental designs in pharmacology. Acute and chronic drug toxicity; drug overdose treatment. Factors affecting drug mechanisms. Basics of rational pharmacotherapy; the process of rational therapy. Choice of L-drug for the treatment of febrility and pain. Choice of L-drug for the treatment of infections. Anaphylactic shock therapy and anti-shock therapy. Exercises with simulated patients (febrility, pain, infections). |
| **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. Lectures2. Practical work | 1. 60%2. 40% |
| **2.2. Grading:** | 1. Attendance and participation in classes 2. Homeworks3. Colloquiums, programs, seminars, presentations4. 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.
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