|  |  |  |  |
| --- | --- | --- | --- |
| **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 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:**  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. Lectures  2. Practical work | | 1. 60%  2. 40% |
| **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. | | | |