

**Course name: Basics of pharmacology** (USOS Code: B-BM.084Eng)

**ECTS: 3**

**No. of hours:** 45 (15 lectures + 30 classes)

**Course coordinator:** Prof. dr hab. Piotr Wlaź

**Prerequisites:** Basic knowledge of human anatomy and physiology

**Course description:** Drug definition. Mechanism of drug action. Membrane transport, absorption and distribution of drugs. Metabolism, excretion of drugs, and kinetics of elimination. Factors affecting drugs action. Drugs interactions. Adverse and toxic effects of the drugs. Drug dependence. Discovery and development of new drugs. Pharmacogenetics. Detailed pharmacology – characteristics of selected groups of drugs (e.g., antidepressants, neuroleptics, sedatives, anxiolytics, antiepileptics, analgesics, cardiovascular drugs).

**Recommended literature:** Goodman and Gilman's The Pharmacological Basis of Therapeutics, Laurence Brunton, Bruce A. Chabner, Bjorn Knollman, 11th edition, McGraw-Hill