

Course name: Pharmacological botany (USOS Code: B-BMED.2017Eng)

ECTS: 5

No. of hours: 75 (30 lectures + 45 classes)

Course coordinator: Dr hab. Małgorzata Wrzesień, prof. UMCS

Prerequisites: General knowledge of botany and chemistry

Course description: The medicinal properties of plants and their role in both traditional and modern medicine. History of herbal medicine, and alternative medicinal practices around the world. The basics of ethnobotanical research. Biodiversity, endangered medicinal and aromatic plants. Botanical, ecological, chemical and pharmacological characteristics of common medicinal plants. Biological aspects of natural active compounds present in plants. Commercial use of herbs. Therapeutic uses of plants (nerve system, metabolic syndrome, urology, gastrointestinal, cardiovascular). Herbal medicinal for dermatologic uses. The psychoactive drugs and poisons obtained from plants (stimulants, hallucinogens, depressants). Toxicity of medicinal plants (*hepatotoxicity*, *nephrotoxicity*, *cardiotoxicity*, *neurotoxicity*). Future of medicinal plants in medicine.

Recommended literature: Lewis W.H., Elvin-Lewis M.P.F. 2003. Medical Botany: Plants Affecting Human Health, 2nd ed. New York: John Wiley & Sons; Van Wyk B.E., Wink M. 2017. Medicinal Plants of the World. Wallingford: CABI Publishing.