

Course Unit Descriptor

Study Programme: BSc in Biology			
Course Unit Title: Medicinal plants			
Course Unit Code: OBIO47			
Name of Lecturer(s): Prof. Miloš Ilić, PhD			
Type and Level of Studies: Bachelor's studies			
Course Status (compulsory/elective): elective			
Semester (winter/summer): winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: -			
Course Aimes: Introducing students to the importance of medicinal plants, their uses, methods of collection, cultivation, and identification. Providing an overview of their medicinal properties and biologically active compounds. Highlighting the factors that threaten wild medicinal plant species and the measures for their conservation.			
Course Outcomes: Students will learn to identify medicinal plants, understand the therapeutic roles of their secondary metabolites, and apply basic techniques for independent research.			
Syllabus:			
<i>Theoretical part</i>			
Historical overview of the use of medicinal plants; Medicinal plant resources; Methods of harvesting, cultivation, packaging, and storage of crude drugs; Pharmacognosy, ethnopharmacology, and medicinal plant chemistry; Modern phytotherapy; Classification of medicinal plants according to dominant active compounds; Alkaloid-containing plants; Plants with essential oils; Structures responsible for essential-oil secretion; Plants containing glycosides; Plants with saponins; Tannin-producing plants; Plants with resins and balsams; Plants containing lower aliphatic acids; Vitamin-rich plants; Psychoactive plants; Threats to wild medicinal plant species and legal measures for their protection.			
<i>Practical part</i> Introduction to the basic characteristics of specific groups on the species example. Alkaloid plants; Etheric oils; Secretion of Etheric oils; Heterosides; Saponosides; Tannines; Resins and balsams; Lower aliphatic acids; Vitamins; Preparation and identification of drugs.			
Required Reading:			
<ol style="list-style-type: none"> Igić, R., Vukov, D., Božin, B., Orlović, S. (2010): Lekovite biljke. Vrelo, Novi Sad. Jančić, R. (2005): Botanika farmaceutika. Službeni list SCG, Beograd. Kovačević N. 2004. Osnovi Farmakognozije. Srpska školska knjiga, Beograd. Ajtić R, Vuković A, Vukelić M, Ilić B, Jelić I, Jančić R, Lazarević P, Stojanović D, Stojanović V, Škobić S. 2016. Priručnik za sakupljanje zaštićenih divljih vrsta biljaka, životinja i gljiva. Zavod za zaštitu prirode Srbije, Beograd. 			
Weekly Contact Hours:			
Lectures: 2	Practical work: 2	Other:	Student research work:
Teaching Methods:			
Knowledge Assessment (maximum of 100 points):			
Requirements	points	Final exam	points
Practical exam	30	Oral exam	70