



Study program: Integrated Academic Studies in Pharmacy
Course title: Economic Botany
Teachers: Nebojša V. Kladar
Course status: elective
ECTS Credits: 3
Condition: General Botany, Plant Systematization
<p>Course aim</p> <p>The main aim of this course is to introduce students to the potential of certain regions in Serbia for the production a food and medicinal raw materials, as well as training them for independent work in the field, manufacturing and processing plants from raw material to the final product and laboratories.</p>
<p>Expected outcome of the course:</p> <p>It is expected that after completing the course, students gain full independence in the entire process of production of herbal drugs, from the moment of habitat selection, cultivation and collection of herbal products, to the time for preparation of the drug. Also, it is expected that students master skills of work which includes the collection, determination and preparation of plant material for the food and pharmaceutical industries, as well as the ability to independently prepare herbal drugs and perform their quality control.</p>
<p>Course description</p> <p><i>Theoretical education</i></p> <ol style="list-style-type: none"> History of use and research of plants, plants as fodd, spices and medicines. Natural resources: diversity of Serbian flora, autochtonous, official and potentially medicinal, as well as aromatic plants. Endemic species: status of wild populations and causes of vulnerability. Grains and legumes. Fruits and vegetables. Herbal beverages (juices and nonalcoholic drinks, alcoholic drinks, coffee, tea and other beverages with caffeine). Spices. Medicinal plants. Tobacco and narcotics drugs Wood and wood products. Fibers (paper, textile fibers). The economic potential of production of medicinal plants in Serbia. Permanently sustainable use of wild plants and legislation. Genetically modified plants. <p><i>Practical education (labs)</i></p> <ol style="list-style-type: none"> Field work (exploring the flora of Serbia). Collection of plant material. Determination of plant material. Preparation of drugs from plant material collected: <ul style="list-style-type: none"> Chopping Drying Stabilization Sterilization Packing Storage Transport Preparation of food products (herbal drink).
<p>Literature</p> <p><i>Compulsory</i></p> <ol style="list-style-type: none"> Pandey BP. Economic Botany. S. Chand Publishing (any edition). <p><i>Additional</i></p> <ol style="list-style-type: none"> Flora of Republic of Serbia Vol. 1-10, SANU, Belgrade (any edition).

Number of active classes	Theory: 30	Practice: 15	
Teaching methods			
1. Theoretical education			
2. Practical education (Field work, Practical classes, Seminars)			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	20
Practices	15	Oral	40
Colloquium	-		
Essay	20		