

Title	Up-to date technologies of medicinal plant production		
Code	3ME13NAK37M		
Prerequisites			
Description	<p>The course schedule involves essential knowledge concerning the whole process line of sustainable medicinal crop producing systems. The main elements of cultivation including agrotechnology and crop processing are demonstrated with respect to the biological, ecological, agrotechnical background and regulations applied in the sector. Detailed information is presented regarding the most important medicinal and aromatic plant crops of the world with their significance in national and international level. Theoretical part of the course consist of the following topics: variety use, propagation technologies, legal regulations, optimization of the crop to the growing area, specific soil tillage, irrigation and nutrient supply applied in herb fields, harvesting and processing technologies, respectively. We focus on the modern methods and equipments of plant protection and weed control in integrated cropping systems as well as in organic farming, demonsstrating the most important pests and diseases appearing in medicinal plant cultures. Medicinal plant based crop enhancing agents are also evaluated. Up-to-date technologies and machines of medicinal plant harvest are essential part of the knowlegde provided by the course, optimized to specific developmental phases of herbs. Primary and secondary processing technologies and quality assurance systems are also demonstrated. Individual project work and its presentation are part of the program as well.</p>		
Lecturer	<p>Dr. Zámboriné Németh Éva, egyetemi tanár DSc Dr. Pluhár Zsuzsanna, egyetemi docens PhD habil Dr. Gosztola Beáta, adjunktus PhD Dr. Tavaszi-Sárosi, Szilvia adjunktus PhD Dr. Radácsi Péter, adjunktus PhD</p>		
Semester	1st, fall	Contact hours/week	2+1
Level	MSc	ECTS	3
Teaching and Learning Methods:	Presentation of an individual project work		
Reading:	<p>Compulsory literature: -Zsuzsanna Pluhár (ed.): Up-to-date technologies of medicinal plant production In:Éva Németh Zámboriné, Szilvia Sárosi, Levente Horváth : Modern Horticulture. Corvinus University of Budapest, Faculty of Horticultural Science, 2013. (ISBN: 978-963-503-552-6): e-book (www.kertesztananyag.hu) or http://www.tankonyvtar.hu/hu/tartalom/tamop412A/2011-0028_up_to_date_technologies/up_to_date_technologies_of_medicinal_plant_production_1_1.html</p> <p>Recommended literature: -Hoppe, B. (2012-13): Handbuch Arznei- und Gewürzpflanzenanbau, 4 és 5 kötet, Saluplanta e.V./GFS e.V., Bernburg -Hornok, L. (ed): Cultivation and processing of medicinal and aromatic plants. Academic Publisher, Budapest, 1991.</p>		
Assessment:	exam		

