

MEDICINAL PLANTS AND SPICES (3ME13NAK01B)
BSc in Horticultural Engineering, 2nd year
 Academic year of 2019/2020, spring semester

Course schedule

Date	Lectures (2 hours) 12.00-13.45 h (G6 / e-learning)	Lecturer	Date	Seminars (2 hours) 14.00-15.45 h (G6 / e-learning)	Teacher
February 12	History of curing, traditional and up-to-date therapeutic fields of application of medicinal plants	Jenő Bernáth	February 12	Botanical features of medicinal plants and spices (anatomy, taxonomy and occurrence)	Zsuzsanna Pluhár
February 19	Active compounds of medicinal and aromatic plants	Zsuzsanna Pluhár	February 19	Demonstration of active compound isolation from different drug types	Gosztola
February 24 – 28 Field practices					
March 4	Definition of drug and product categories made of medicinal and aromatic plants	Jenő Bernáth	March 4	Flower drug producing wild-crafted medicinal plant species (elderberry, hawthorn, linden tree)	Éva Ónody
March 11	Primary processing of medicinal plants	Péter Radácsi	March 11	Laboratory quality control of herbal drugs	Péter Radácsi
Spring holiday*					
March 25*	Aspects of medicinal plant collection from wild habitats	Krisztina Szabó	March 25	-	
April 1*	Medicinal plant producing systems and regions worldwide	Éva Németh	April 1	Leaf drug producing wild-crafted medicinal plant species (nettle, plantain, blueberry, mistletoe)	Zsuzsanna Pluhár
April 8*	Quality assurance systems in medicinal plant production	Éva Németh	April 8	Herba drug producing wild-crafted medicinal plant species (goldenrod, yarrow, St. John's Wort , horsetail)	Péter Radácsi
April 15	Economy and commerce of medicinal plants and products	Éva Németh	April 15	Root, bark or fruit producing wild-crafted medicinal plant species (marshmallow , horse chestnut, common juniper, wild rose)	Beatrix Cserhádi
April 20-24 Field practices					
April 22*	Protected and endangered medicinal and aromatic plants. Gene reservation. Introduction of medicinal plant species into cultivation	Éva Németh	April 22	The most important tropical spices worldwide (black pepper, cinnamon, vanilla, ginger, nutmeg, clove bud)	Krisztina Szabó
April 29*	12.00 h Tropical medicinal plants collected in south-east Asia (Nguyen Thi Huong) - Visit in the Botanical Garden of the Eötvös Lóránd University (Zsuzsanna Pluhár)				
May 6*	12.00 h Medicinal plants in Africa (Sintaheyu Musie Mulugeta)				
May 13**	12.00 h Online consultation about the learning material and exams (Zsuzsanna Pluhár)				
May 18-22 Field practices (?)					

Field practices in the Medicinal Plant Unit of the Experimental and Research Farm (Soroksár): ~~April 21st~~, May 18th and 20th (with plant identification test) (?)

*From 23rd March, 2020, online lecturing will be available on e-learning platform on Wednesdays in the original timeframe of the course. PDF materials of the lectures and seminars are also available on the e-learning platform of the course

** On 13th May, 2020 extra consultation possibility is scheduled concerning the learning material, the exams and the field practices.

Neptun system will also be used to send messages on the course.

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Learning materials recommended

- Bernáth J., Gosztola B., Pluhár Zs., Radácsi P., Szabó K., Zámoriné Németh É. (2018) Medicinal plants and spices (e-book chapters available for our students on the website of the Department of Medicinal and Aromatic Plants by using individual password of the students):
http://medplant.hort.szi.hu/sites/default/files/files/ENGLISH/Education/Training%20materials/MAP%20production/MAP_Training%20material_F.pdf
- **Electronic version of lectures available in pdf on the e-learning platform created for the course:** <https://elearning.szie.hu/course/view.php?id=4408>
- Hornok, L. (ed): Cultivation and processing of medicinal and aromatic plants. Academic Publisher, Budapest, 1991.

Criteria to fulfil the course (to obtain term mark)

Requirements (terms to fulfill before exam):

- Class attendance is compulsory on the practical course, where max. 3 absence (25%) is accepted
- Participation on the field practices organized by the department in April (1 day) and May (2 days) in the Experimental and Research Farm (Soroksár)
- 1 individual field practice day is organized by the Experimental and Research Farm (Soroksár): by individual registration via doodle platform
- Successful plant identification test on 10 plants in the course of field practices in May (?)

Exam:

- an exam consist of a **written (online) and an oral part (online)**, where a successful **1st written part** is a prerequisite of the **2nd part**. **Written exam will be performed on the e-learning platform, from 9.00-9.15 am, where the test appears and starts on time at 9.00 am. Oral exams are to be taken applying the same e-learning platform of the course, via BigBlueButton„Exam“), starting at 10.00 am.**
 - **1st written part** includes
 - drug identification of 6 plant drugs (indicating the Latin and English drug name with chief compound)
 - plant identification from a photo (where the Latin and English name, plant family and life-form is to be given by the student)
 - **2nd part (online, oral)** includes 2 questions from the list available on the Department website
- if the **1st written part** is failed, the student cannot participate in the **2nd part** of the exam and the complete exam is to be repeated
- if the **1st written part** is successful but the **2nd part** is failed, the complete exam is to be repeated

Budapest, 28th January, 2020, **modified on (18th March, 2020), (27th March, 2020), 6th May, 2020**

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