

## NEW TRENDS IN HORTICULTURE

Optional course recommended for students of BSc in Horticultural Engineering in the 1st/fall semester of the academic year of 2018/2019 (3DH28NCS20B)

**Place and time of lectures:** Building G, 2<sup>nd</sup> floor, seminar room No. G7, on Fridays: 10.00-12.00 h

Time	Lecture	Department	Lecturer
21st September	1. Introduction, teaching program and requirements New trends and traditions in medicinal plant production	Department of Medicinal and Aromatic Plants	dr. Pluhár Zsuzsanna
28th September	2. Locality and globality in modern horticulture	Department of Horticultural Economics	dr. Ernő Péter Botos
5th October	3. The story of plants; from the wild ancestors towards the cultivated species	Department of Botany	Dr. Mária Höhn
12th October	4. Sustainable agriculture: trends and research 5. Research and innovation in vegetable and mushroom growing	Department of Ecological and Sustainable Production Systems Department of Vegetable and Mushroom Growing	Dr. Anna Divéky-Ertsey dr. Anna Szabó
19th October	6. New trends in terroir research 7. Optimizing the amount of biologically active compounds during the production of biowines	Department of Viticulture Department of Oenology	dr. Borbála Bálo dr. Diána Nyitrai Sárdy
26th October	8. Cultivars and technological innovations in fruit growing	Department of Pomology	Dr. Gergely Simon
2nd November	<b>All Saints Day- Holiday</b>	-	-
9th November	9. Environmental benefits and services of urban trees Research and innovation in ornamental plant growing under protected areas	Department of Floriculture and Dendrology	Dr. Károly Hrotkó dr. Andrea Tillyné Mándy
16th November	10. Precision Horticulture & Remote Sensing 11. How to get more information from big data	Technical Department Dept. of Biometry and Agricultural Informatics	Dr. Jung András Dr. Márta Ladányi
23th November	12. The concept of integrated pest management. 13. History of Plant Pathology, from the rust-god to the immunoelectron microscopy	Department of Entomology Department of Plant Pathology	Dr. József Fail Dr. László Palkovics
30th November	14. Biofertilizers, plant-growth producers, biostimulants, up to date soil-power/health-management and novel plant-cultivation technologies.	Department of Soil Science and Water Management	Dr. Borbála Bíró
7th December	15. Insight into genetic secrets of horticultural crops 16. Plants on the move – Physiology of rapid movements in plants	Department of Genetics and Plant Breeding Department of Plant Physiology and Plant Biochemistry	Dr. Attila Hegedűs Dr. István Papp

### Literature recommended

- handouts of lectures (distributed in pdf), further references suggested by the lecturers
- e-book ([www.kertesztananyag.hu](http://www.kertesztananyag.hu)), <http://www.kertesztananyag.hu/english-citation>

### Requirements (terms to fulfill before exam):

- Class attendance is compulsory, the maximum of 3 absence (25%) is allowed

**Exam:** written (test)

Budapest, 7th September, 2017

dr. Zsuzsanna Pluhár  
associate professor, course instructor