

Tárgytematika / Course Description

Biological background of horticultural production

N_DMA12**Tárgyfelelős neve /****Teacher's name:** Pólyáné Dr. Hanusz Borbála**Félév / Semester:** 2022/23/1**Beszámolási forma /****Assesment:** Vizsga**Tárgy heti óraszám /****Teaching hours(week):** 0/0/0**Tárgy féléves óraszám /****Teaching hours(sem.):** 30/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the course is to build on the tasks of engineering training and provide detailed information and an adequate basis for scientific work for those graduated engineers who are retraining themselves. The course presents some important connections of horticultural production, sectors of horticultures and specifically examines their biological backgrounds. It pursues to convey scientific and encyclopaedic knowledge. The education period is divided as follows: vegetable production 40%, fruit and nursery cultivation 30% and vine growing and winery 30%. The biological background of horticulture is most evident in the everyday use of new and older varieties. The cultivation of varieties as well as the circulation and collection of varieties are maintained in research institutes and gene banks. The educational courses related to research institutes deal in the tiniest of instalments: including the health problems of important plants, isolation and controls, and some essential particulars of the disinfection program.

TANTÁRGY TARTALMA / DESCRIPTION

1. General issues of horticultural production.
2. The morphology of vegetables (temperate zone).
3. The flowering and fertilization of vegetables.
4. Growing important vegetables, (iteration).
5. Morphology of fruits (temperate zone).
6. Flowering biology of important fruits.

7. The propagation of fruit varieties.
8. Issues of breeding maintenance.
9. Morphology and propagation of vine varieties.
10. Maintenance of vine varieties.
11. Health problems of plants and disinfection in horticulture.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Meeting the conditions set by the supervisor.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

E., Jámborné Benczúr – J., Dobránszki (2005): Micro propagation of horticultural plants. Mezőgazda Kiadó, Budapest

S., Balázs (1994): Handbook of Vegetable Producers. Mezőgazda Kiadó, Budapest

J., Papp (2003): Basic knowledge of fruit production 1. Mezőgazda Kiadó, Budapest

M., Soltész (1998): Knowledge and Use of Fruit Characteristics. Mezőgazda Kiadó, Budapest

M., G. Tóth (1997): Varieties of fruits. Primom, Nyíregyháza. **Hrotkó K.** (1999): Fruit Tree School. Mezőgazda Kiadó, Budapest

P., Csepregi and J., Zilai (1988): Vine variety knowledge and use. Agricultural Publishing House, Budapest

M., Németh (1967): Ampelographic album. Agricultural Publishing House, Budapest

J., Nyéki J. and M., Soltész (1996): Floral Biology of Temperate Zone Fruit Trees and Small Fruits.

Akadémiai Kiadó, Budapest

I., Seprős (2001): Plant Therapy in Horticulture. Agricultural Expertise Publishing, Budapest