

Tárgytematika / Course Description

Special aspects of crop production technologies

N_DMA17

Tárgyfelelős neve /

Teacher's name: dr. Schmidt Rezső

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 course includes the newest elements of crop production technologies of the most important cultivated crops, their environmental requirements and soil fertility aspects. During the course the most important ecological and soil fertility relationships will be discussed that are essential for successful crop production in our country and in the region. The curriculum deals with environmental factors that influence crop production and successful strategies that harmonize with a particular environment and exploit the natural conditions in an efficient and environmentally sound way. The realization of technologies corresponding with the described principles is also part of the curriculum.

TANTÁRGY TARTALMA / DESCRIPTION

1. Soil fertility and crop production.
2. Climatic and edaphic conditions of Hungary and crop production.
3. Soil as the basic medium of crop production. Crop production on different types of soils.
4. Soil degradation and crop production. Soil management alternatives in reducing soil degradation.
5. Nutrition management and crop production.
6. Nutrient replacement technologies.
7. Latest crop production aspects of the agricultural economy. The modified CAP and its effects on crop production.

8. New methods and technologies in cereal production.
9. New methods and technologies in maize production.
10. New methods and technologies in the production of oil plants.
11. New methods and technologies in the production of root and tuber crops.
12. New methods and technologies in the production of alternative plants.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Meeting the conditions set by the supervisor.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Birkás Márta (2006): Környezetkímélő és alkalmazkodó talajművelés

Kádár Imre (1997): A növénytáplálás alapelvei és módszerei. MTA Talajtani és Agrokémiai Kutatóintézete

Nyle C. Brady (1990): The Nature and Property of Soils. Macmillan Publishing Company, New York

Nagy János (2007): Kukorica termesztés. Budapest, Akadémiai Kiadó, ISBN: 9789630583299

Radics László (2010): Fenntartható szemléletű szántóföldi növénytermesztés I., II., III. Budapest Agroinform Kiadó

Nagy János (2008): Maize Production. Akadémiai Kiadó