

Tárgytematika / Course Description

Plant production machines

MENB_BÉTA007

Tárgyfelelős neve /

Teacher's name: Dr. Nyéki Anikó Éva

Félév / Semester: 2022/23/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/1/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

Course aim

To provide students (for the degree of Bachelor of Science, BSc) with the latest technology, machinery and management skill necessary for a career in the crop production.

Duration

1 Semester

TANTÁRGY TARTALMA / DESCRIPTION

COURSE CONTENT and DESCRIPTION

Review of crop production machinery. The course involves the application of almost all aspects of crop production. The topics covered in this subject will enable the students to understand the basic principles, construction and working of farm machinery for different crops (first of all the field crops). This will also enable them to select appropriate machinery, use, and maintain. This knowledge will be highly useful for agricultural engineering students.

Lecture content

Introduction to farm machinery

Safety and machine elements design

Tillage equipment
Seeding and planting equipment
Pest control and fertilizing equipment
Harvesting equipment
Pro-harvest technology
Hydraulic equipment
Precision crop production machinery
Advances in Unmanned Aerial Systems
Agricultural Robotics
Farm practical day
Farm practical day

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Students must have passed two tests in the semester.

Students must have a minimum 70% attendance and participate in all practical classes.
Students must have passed the final writing or/oral and exam.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

G. Chen: Advances in agricultural machinery and technologies. CRC Press. 2018

K. Srinivasan and V.V. Narayanan: Tractors and agricultural machinery. New India Publishing Agency. 2016