

Università di Pisa agricultural machinery

CHRISTIAN FRASCONI

Anno accademico			2020/21	
CdS			AGRICULTURAL SCIENCES	
Codice			442GG	
CFU			6	
Moduli	Settore/i	Tipo	Ore	Docente/i
MECCANICA AGRARIA	AGR/09	LEZIONI	64	CHRISTIAN FRASCONI

Learning outcomes

Knowledge

The student who completes the course successfully will have acquired knowledge about the agricultural machinery characteristics and performances for a correct and efficient use, according to operative conditions and farm needs.

Assessment criteria of knowledge

The student will be assessed on his/her demonstrated ability to discuss and explain the main course contents using the appropriate terminology.

Skills

The student will be able to choose the agricultural machinery necessary for the management of a farm.

Assessment criteria of skills

During the course verification moments of acquired skills will be carried out by solving mechanical and agricultural mechanization problems, also using internet connections with the web sites of agricultural machinery manufacturers.

Behaviors

At the end of the course students will be able to manage in a technically correct way the agricultural machines and the farm mechanization paying particular attention to environmental and workplace safety issues.

Assessment criteria of behaviors

During the exercitations and lessons, students will be stimulated by the professor to solve in a technically correct way the agricultural machinery and farm mechanization issues with special attention to respect for the environment and workers' health.

Prerequisites

Math and physics knowledge imparted by the degree course are necessary.

Teaching methods

Delivery: face to face.

Learning activities:

attending lectures Practical Attendance: Advised

Teaching methods: Lectures Practical It ' made extensive use of links to web sites.

Syllabus



Sistema centralizzato di iscrizione agli esami Programma

<u>Università di Pisa</u>

Systems of measurement of physical quantities, driving forces and useful and passive resistant, power transmission, internal combustion engines, electrotechnical, aerotechnical, agricultural tractor, operating machines for soil tillage and management, sowing machines and transplantation, fertilizer spreader, sprayers, harvesters.

Bibliography

Recommended reading includes the following works: Schemes available on e-learning website of the Department of Agriculture, Food and Environment. Biondi P. (1999) Meccanica Agraria, UTET, Torino. Bodria L., Pellizzi G., Piccarolo P., (2006) Meccanica Agraria. Voll. I e II. Edagricole, Bologna. Lazzari M., Mazzetto F. (2005) Prontuario di Meccanica Agraria e Meccanizzazione, REDA, Torino. Pellizzi G. (1983) Meccanica Agraria, volume I e II, Edagricole, Bologna. Pellizzi G. (1996) Meccanica e Meccanizzazione Agricola, Edagricole, Bologna. Casa R. (2016) Agricoltura di Precisione. Edagricole – Edizioni Agricole di New Business Media srl, Milano.

Non-attending students info

There are no changes for non-attending students.

Not-attending students can follow the lessons using the teaching material provided on the E-learning web site by the teacher, suggested book and consulting the lesson log.

Assessment methods

Final oral exam

The examination includes:

- 1. the verification of applied physics knowledge;
- 2. description of agricultural machines;
- 3. selecting the agricultural machines (technical characteristics, quality and size),
- 4. machines fleet sizing, management and logistics.

Class web page

https://teams.microsoft.com/l/channel/19%3ad14e9c699c18421b881992872a07646b%40thread.tacv2/Generale?groupId=53369396-748c-44e7 -8a4d-28d73a29e3b1&tenantId=c7456b31-a220-47f5-be52-473828670aa1

Updated: 25/02/2021 15:49