

## Tárgytematika / Course Description Universal Animal Husbandry

**MENB\_ÁTTA033**

**Tárgyfelelős neve /**

**Teacher's name:** Dr. Tempfli Károly

**Félév / Semester:** 2024/25/2

**Beszámolási forma /**

**Assesment:** Vizsga

**Tárgy heti óraszám /**

**Teaching hours(week):** 2/1/0

**Tárgy féléves óraszám /**

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

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### OKTATÁS CÉLJA / AIM OF THE COURSE

During this course students are introduced to the basic principles of animal breeding and housing, a prerequisite for further detailed species-specific studies. Origin and domestication, and different breeds of farm animals (cattle, pig, sheep, goat, poultry) are discussed.

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### TANTÁRGY TARTALMA / DESCRIPTION

#### Description (lectures):

Week 1 Introduction. Domestication

Week 2 Environmental factors

Week 3 Taxonomy of farm animals

Week 4 Species characteristics, exterior description

Week 5 Production traits of farm animals I.

Week 6 Production traits of farm animals II.

Week 7 Reproductive biology of farm animals

Week 8 Basics of population genetics

Week 9 Breeding value estimation

Week 10 Methods of selection

Week 11 Methods of farm animal breeding I.

Week 12 Methods of farm animal breeding II.

Week 13 Housing technology, welfare, pedigree breeding

Week 14 Preservation of farm animal genetic resources

### **Exercises**

Week 1 Introduction

Week 2 Basics of experimental methodology

Week 3 Domestication

Week 4 Environmental factors affecting animal production

Week 5 Breeds of farm animals

Week 6 Exterior description of farm animals

Week 7 Hormones and stress

Week 8 Applications of population genetics

Week 9 Reproductive biology I.

Week 10 Reproductive biology II.

Week 11 Pedigree breeding

Week 12 Housing technologies

Week 13 Gene conservation

Week 14 Semester overview, questionss

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## **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD**

### **Conditions of course acceptance:**

Participation is required on at least 66% of lectures. Oral exam based on discussed topics, at least 50% of total points is required for a successful exam. Grades: 1: very poor, failed exam; 2: poor; 3: adequate; 4: good; 5: excellent.

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## **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

Oldenbroek, K. (2014): Animal Breeding and Genetics. Wageningen University, the Netherlands

### **Ajánlott irodalom**

Ewing, S.A.; Lay, D.C.; Borell, E.V. (1998): Farm Animal Well-Being: Stress Physiology, Animal Behavior and Environmental Design. Prentice Hall, USA

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**AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**