

Tárgytematika / Course Description Special research methodology in animal breeding

N_DMA27

Tárgyfelelős neve /

Teacher's name: dr. Tóth Tamás

Félév / Semester: 2023/24/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 0/0/0

Tárgy féléves óraszám /

Teaching hours(sem.): 20/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the course is to give an overview of the main research methods applied in animal breeding. Methods of research works carried out with livestock related to feeding and digestive physiology will be evaluated. The course provides information about the main aspects of trial settings and about the methods of collecting and compiling data. The latest evaluation techniques will be demonstrated using actual experimental data. The course deals with the directives of publication in national and international scientific literature where data observed in research work can be published.

TANTÁRGY TARTALMA / DESCRIPTION

General directives of scientific trial planning and trial setting.

Introduction of trial design (randomised block, Latin square, crossover, etc.).

Determination of nutrition digestibility using animal experiments and *in vivo* methods.

Determination the protein value of the feed in livestock feeding.

Presentation of *in sacco (in situ)*, *mobil bag*, and *in vivo* experiments used in the feeding of ruminants.

Cannulation (T-shaped cannula, PVTC-cannula, re-entrant methods) and other techniques (post mortem inspections) in the feeding of monogastric animals.

Presentation of animal test sites in Mosonmagyaróvár (practical training).

Collection and evaluation of experimental data, preparation of descriptive statistics (practical training).

Evaluation of statistical significance (practical training).

Analysis of variance (practical training).

Analysis of correlation and regression (practical training).

Directives of scientific publications.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Hancz, Cs. (2004): Kísérleti statisztika I. Kísérletek tervezése és értékelése. 2004

Petrie, A. – Watson, P. (2013): Statistics for Veterinary and Animal Science. Wiley-Blackwell; 3rd edition.

Orskov, E.R. (2001): Trails and trials in livestock research. 2001.

Zagumny, M. (2001): The SPSS book. 2001. Universe.

Current articles in relevant international and national publications

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL