COURSE SYLLABUS (Code: CN02701)
EXPERIMENTAL DESIGN

1. General information

Course: Experimental design (CN02701)

Credits: 2 (Lecture: 1,5 – Practice: 0,5 – Self-study: 6,0)

Training program: Animal Science (Option 1: Animal production & Health, Option 2: Animal nutrition & Feed technology)

2. Expected learning outcomes (ELOs)

Notation	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledge		
K1	Applying knowledge of biological statistics to analyze the factors and draw conclusions about differences between livestock populations from experimental data	ELO1: **Apply** the general knowledge of natural and social sciences and the understanding of contemporary issues to the field of livestock production
Skills		
K2	Applying results from studies to provide appropriate solutions in livestock development	ELO 8: **Use** effectively the skills of surveying, collecting, and processing data to serve scientific research, technology development, and management of livestock production
K3	Choose and use the correct biological statistical methods to analyze data in the livestock field	ELO 9: **Apply** appropriate techniques, technologies, and systems in sustainable livestock production
K4	Proficient use of specialized software for data processing in the field of animal husbandry	ELO 10: **Utilize** information technology and modern equipment in the livestock industry to serve production and business to achieve objectives.
Attitute		
K5	Demonstrate responsibility and respect for animal welfare in the design of animal husbandry experiments	ELO 12: **Comply** with state laws and specific regulations and professional ethics

3. Brief descriptions

Chapter 1: Descriptive statistics

Chapter 2: Estimating and testing hypotheses

Chapter 3: Concepts of experimental design

Chapter 4: One-factor experiments

Chapter 5: Two-factor experiment

Chapter 6: Correlation and linear regression

Chapter 7: Correspondence table

4. Learning methods

- Students read the textbooks and references by themselves,
- Participate in-class discussion
- Find references, discuss
- Practice
- E-learning: Find and lookup references; do homework

5. Assessment methods

- Grading scale: 10
- Average point: is the sum of the rubric scores multiplied by the weight of each rubric
    + Class participation: 10%
    + Mid-term test: 30%
    + Final examination: 60%

6. Student tasks

- Attendance: Students must attend at least 75% of the class and participate in class activities (discussion in class and on e-learning system, etc.)
- Practice: Students must attend all practice content
- Complete the mid-term test and the final examination.

7. Key academic staffs

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Communicate with key academic staff: via email, phone, and e-learning system.