

COURSE SYLABUS (Code: CN03509)

LIVESTOCK WASTE MANAGEMENT

1. General information

Course: Livestock waste management (CN03509)

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	Evaluate effects of livestock production and animal waste on animal health and the environment	ELO 2: Analyze factors affecting the animal breed production, nutrition, and animal health
K2	Design the waste management program towards a cleaner production and mitigate the environmental pollution	ELO 4: Design livestock production programs to ensure sustainable development
Skills		
K3	Apply the systematic thinking, critical thinking and problem-solving skills to manage animal waste effectively	ELO 5: Apply effectively creative and critical thinking, and problem-solved skills to scientific research and professional practice
K4	Apply properly technology of animal waste treatment to the system of livestock production with hygiene, safety and sustainable	ELO 9: Apply appropriate techniques, technologies and systems in sustainable livestock production
K5	Apply effectively the practice and technology to animal waste management	ELO 11: Perform properly the basic and intensive technical procedure in livestock production
Ethics and attitudes		
K6	Display the life-long learning by updating new knowledge in the livestock production	ELO 14: Perform the habits of life-long learning

3. Brief descriptions

Introduction: General situation of animal waste production

Chapter 1: Management of solid waste

Chapter 2: Management of liquid waste

Chapter 3: Management of odour and gas waste

Chapter 4: Cleaner production in animal husbandry

4. Learning methods

- Students read the textbooks and references by themselves,
- Group discuss to design and conduct the research project on specific topics
- E-learning: Find and look up references; do the 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%
 - + Research project: 30%
 - + Final examination: 60%

6. Student tasks

- Attendance: All students taking this course must attend classes for lectured chapters in accordance with the current teaching and learning regulations set by the MOET and VNUA. Students should be proactive in articulating and discussing lessons. Students who are absent for any session are responsible for their own understanding of the content being taught and the information exchanged in that lesson.
- Preparation for the lecture: All students taking this course must read relevant book chapters and study materials before hand.
- Implementation of project: All students have to participate in the research project by carrying out the surveys of agrarian systems in rural areas and submit the final report and presentation
- Complete the final examination.

7. Key academic staffs

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