

COURSE SYLABUS (Code: CN03307) FEED SUPPLEMENTS AND ADDITIVES

1. General information

Course: Feed supplements and additives (CN03307)

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)

Items	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledge		
K1	Evaluate characteristics of feed supplements and additives based on chemical composition, mechanism of action, efficiency of use	ELO 3: Evaluate the efficiency of animal breed production, nutrition and animal health
Skills		
K2	Collaborate effectively in groups to distinguish certain types of feed supplements and additives	ELO 6: Coordinate teamwork in professional activities to achieve objectives as a member or a manager
K3	Formulate the premix feed ratio based on collecting information of feed additives and supplements	ELO 10: Utilize information technology and modern equipment in livestock industry to serve production and business to achieve objectives
Ethics and attitudes		
K4	Display respects of the safety regulations when using lab equipment and chemicals	ELO 12: Comply with state law and specific regulations and professional ethics

3. Brief descriptions

Chapter 1: The concept and classification of feed supplements and additives

Chapter 2: Technology additives

Chapter 3: Nutritional additives

Chapter 4: Sensory additives

Chapter 5: Livestock additives

Chapter 6: Mineral-vitamin premix producing

4. Learning methods

- Students read the textbooks and references by themselves,
- Participate in class discussion
- Find references, discuss
- Practice
- E-learning: Find and look up 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 staffs: via email, phone and e-learning system.