

COURSE SYLABUS (Code: CN01201)

GENERAL MICROBIOLOGY

1. General information

Course: General microbiology (CN01201)

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	Apply knowledge of the microorganism roles, the metabolic activity, microbial growth, and microbial genetic for screening, and selection of higher producing microbial strains using in animal production	ELO1: Apply the general knowledge of natural and social sciences and the understanding of contemporary issues to the field of livestock production
K2	Evaluate the effects of environmental factors on microbial growth, as well as the implications of microorganisms in soil, water and air on animal health and farm management.	ELO 2: Analyze factors affecting the animal breed production, nutrition, and animal health
Skills		
K3	Implement competently fundamental microbiological techniques in the microbial lab	ELO 5: Apply effectively creative and critical thinking, and problem-solved skills to scientific research and professional practice
Ethics and attitudes		
K4	Compliance with safety regulations in microbiological research	ELO 12: Comply with state law and specific regulations and professional ethics

3. Brief descriptions

Chapter 1: Introduction

Chapter 2: Morphology - Cell structure - Reproduction of microorganisms

Chapter 3: Microbial Physiology

Chapter 4: Effects of environmental factors on microbial growth

Chapter 5: Microbial genetics

Chapter 6: Distribution of microorganisms in nature

4. Learning methods

-Self-learning: Students will receive the course outline and list of textbook and references books before the class. Learners should look for the information concerning with the lecture

- Participate in Lab practice activities

5. Assessment methods

- Grading scale: 10

- Average point: is the sum of the rubric scores multiplied by the weight of each rubric

+ Class attendance and attitude: 10%

+ Mid-term test: 30%

+ Final exam: 60%

6. Student tasks

Class attendance: Students have to attend classes on time and be active in discussion. Attendance for lectures must be followed according to the current regulations set by the MOET and VNUA. If the student miss class, in acceptable cases, it is his or her responsibility to obtain missed lecture notes and supplemental handouts.

Lab practice: Students must attend all practice content

Final exam: Failure to participate in the final exam will be graded zero and not re-tested (except for force majeure reasons).

7. Key academic staffs

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