

EXPECTED LEARNING OUTCOMES (ELOs)

KNOWLEGES	
ELO 1	Apply mathematical, scientific, technical, social knowledge, and knowledge on contemporary issues in the field of Aquaculture
ELO 2	Analyze data to conduct surveys and research in the field of Aquaculture
ELO 3	Assess the quality of care, treatment, and health management of Aquaculture species
ELO 4	Design the model of Aquaculture farming and seed production along the direction of clean production and ensuring safety food sources for human.
SOFT SKILLS	
ELO 5	Apply creative thinking, critical thinking, and problem solving skills in a variety of contexts.
ELO 6	Work independently, lead the team, and manage the project towards its goals.
ELO 7	Communicate effectively, understand cultural differences, read English documents in the field of Aquaculture
ADVANCED SKILLS	
ELO 8	Provide technical advice and business solutions in the field of Aquaculture to benefit stakeholders (producers, traders, communities).
ELO 9	Use information technology and modern equipment of the Aquaculture sector effectively.
ATTITUDES	
ELO 10	Develop a professional work attitude, uphold professional ethics, demonstrate an awareness of environmental and human protection, love and protect animals.
ELO 11	Demonstrate a spirit of entrepreneurship and life-long learning



LEARNING CONTENT

- **Chapter 1:** Microbiological overview
- **Chapter 2:** Growth and development of microbiology
- **Chapter 3:** The role of microbiology in water and in aquatic animals
- **Chapter 4:** Microbial pathogens



DUTIES OF STUDENTS

- Attendance: Students must attend at least 80% for the theory and 100% for the practical.
- Preparing for lectures: Students must read teaching materials, reference books and search for materials provided and introduced by lecturers.
- Attitude: actively participating in questioning, commenting, critical review, evaluation and marketing

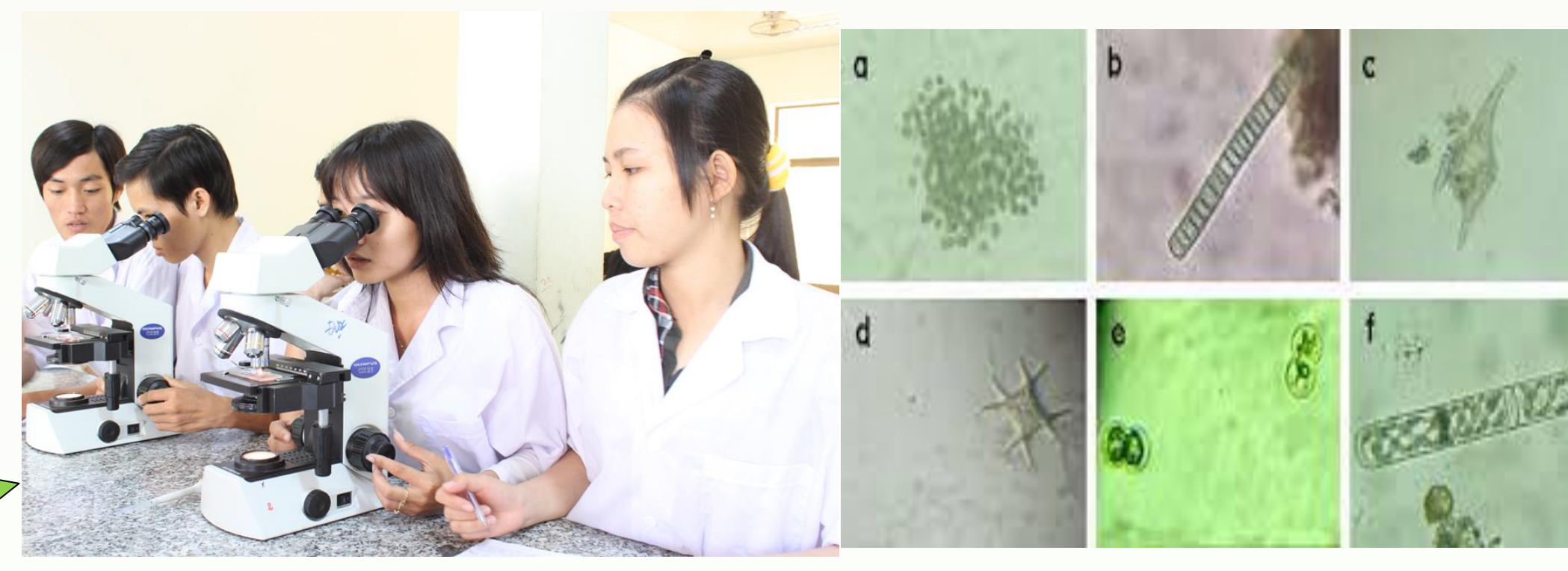
COURSE EXPECTED LEARNING OUTCOMES (CELOs)

Sympol	Expected learning outcome of course (CELOS)	Expected learning outcome of progame (ELOs)
KNOWLEGES		
CELO1	Explain the structure, characteristics of growth and development of microbiology	ELO1
CELO2	Analyze the role of microbiology in water and in aquatic animals	ELO3
CELO3	Assess the influence of microbiology in the treatment and health management of aquatic animals	ELO3
SOFT SKILLS		
CELO4	Communicate effectively, the presentation and writing the report	ELO5, ELO7
CELO5	Work independently, work the team	ELO5, ELO6, ELO7
ADVANCED SKILLS		
CELO6	Determine density microbiology in water	ELO5, ELO6, ELO9
ATTITUDES		
CELO7	Conscious of professional ethics	ELO10
CELO8	Aware about self-study and self-research	ELO11



LEARNING METHODS

- Read independent material, ask related questions, listen, answer questions
- Join lectures, watch videos, discuss in groups
- Doing homework, specialized reports
- Practice: Sample analysis



RATING AND SCORING

- Score scale: 10
- Process evaluation: 50% + Final exam: 50%

LECTURERS

Teacher in charge: Nguyen Thi Hong Nhi (Cellphone: 0813415966; Email: nguyenthihongnhi@tvu.edu.vn)
List of other lecturers: Nguyen Thi Truc Linh (Cellphone: 0939701567; Email: truclinh@tvu.edu.vn)