



COURSE NAME: FISH REPRODUCTION

Credit: 4: 2 theory credits, 2 practics

1. EXPECTED LEARNING OUTCOME

Sympol	EXPECTED LEARNING OUTCOME OF COURSE (CELO)	EXPECTED LEARNING OUTCOME OF PROGAME (ELO)
Knowledges		
CELO 1	Explain the biological characteristics of the fishes	ELO1
CELO 2	Applying knowledge about water environment, nutrition to prevent and treat some diseases in rearing, breeding fish, hatching eggs and rearing fish. Proactively detect problems and conduct surveys, analyze data on fish seed production	ELO2,3
CELO 3	Designing fish hatcheries	ELO4
Skills		
CELO 4	Breeding some fish species	ELO8,9
CELO 5	Work independently, work in teams and write reports	EL5,6
CELO 6	Effective communication in many forms (speaking, explaining, guiding, writing reports, using specialized English)	EL7, 8
Attitudes		
CELO 7	Respect professional ethics in fish seed production	ELO10
CELO 8	Awareness self-study to improve skills and start a business	ELO 11

2. LEARNING CONTENT

- Chapter 1: Buildings in fish hatcheries
- Chapter 2: Method to raise broodstock
- Chapter 3: Methods of hatching, rearing and transporting fingerlings
- Chapter 4: Reproduction process of some types of fish
- Chapter 5: Common diseases and disease prevention in fish hatcheries
- Chapter 6: Some biotechnology applications in fish seed production



Figures 1 and 2: Choose broodstock

3. LEARNING METHODS

- Read the document yourself, ask relevant questions
- Participate in lectures, watch videos, discuss in groups and pairs
- Perform homework, seminar report
- Participate in practice at the school's fish hatcheries and off campus

4. DUTIES OF STUDENTS

- Preparing for lectures: Students must read books, lectures, related scientific papers provided by lecturers; do class exercises.
- Attitude: actively participating in asking questions, exchanging, participating in practice and showing learning desire.



Figures 3 and 4: Injecting stimulants to breed fish

5. RATING AND SCORING

- Score scale: 10
- Weight: Process evaluation: 50%: (Seminar, practice report, practice). Final exam: 50%: Essay.

6. LECTURERS

- Teacher in charge: Huynh Kim Huong ; Email: hkhuong77@tvu.edu.vn. Cellphone: 0919800663;
- The other teacher: hknam@tvu.edu.vn; Cellphone: 0839008689