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# Certificate

This is to certify that

**Tetiana Poltavchenko**

from

The National University of Water and Environmental Engineering (Ukraine)

participated in the training at  
University of Dubrovnik (Croatia)

within the framework of the  
**AFISHE**

**“Development of Aquaculture and Fisheries Education for Green Deal in  
Armenia and Ukraine: from education to ecology”**

Erasmus+ CBHE project on 26.02.2024 – 08.03.2024.

The training is 90 hours and 3 credits.

**Associate Professor Marijana Pećarević,  
PhD**

**Garegin Hambardzumyan**

**Vice-Rector for International Relations and  
science  
University of Dubrovnik**

**AFISHE project coordinator  
Head of International Relations Department  
Armenian National Agrarian University**

A handwritten signature in blue ink, appearing to be "M. Pećarević".

08 March 2024

A handwritten signature in blue ink, appearing to be "Garegin Hambardzumyan".





## Topics of the training

### Prevention and treatment of fish diseases

#### **THEORETICAL TOPICS**

- 1) SIGNIFICANCE OF FISH DISEASES IN RELATION TO AQUACULTURE**
- 2) PATHOPHYSIOLOGY OF FISH DISEASES**
- 3) SYSTEMATIC FISH PATHOLOGY**
- 4) DEFENCE MECHANISMS**
- 5) PARASITIC DISEASES**
- 6) BACTERIAL DISEASES**
- 7) VIRAL DISEASES**
- 8) FUNGAL DISEASES**
- 9) NON-INFECTIOUS DISEASES**
- 10) DIAGNOSIS OF FISH DISEASES**
- 11) FISH VACCINES**
- 12) HEALTH MANAGEMENT STRATEGIES**

#### **PRATICAL CLASSES AND ACTIVITIES**

- *Methods of sampling fish for disease diagnosis*
- *Live and post mortem examination*
- *Collection and identification of parasites*
  - *Techniques in histology*
- *Pathological changes in different organ systems associated with different pathogens*
  - *Methods of treatment*
  - *Visit to the local fish market*