

## ICHTHYOPATHOLOGY

*Department of Anatomy, Normal and Pathological Physiology*

### Faculty of Veterinary Medicine

<b>Teacher</b>	<b>L Kovalenko</b> , <u>Candidate of Veterinary Sciences (comparable to the academic degree of Doctor of Philosophy, Ph.D.)</u> .		
1. Title	<b>Ichthyopathology</b>		
2. Faculty/Department	Veterinary Medicine/ anatomy, normal and pathological animal physiology		
3. Type (compulsory or optional)	selective		
4. Module can be suggested for (to be filled in for optional types)	<b>Ichthyopathology</b> 211 "Veterinary Medicine"		
5. Level of the National Qualifications Framework	at the second (master's) level of higher education		
6. Semester and duration of module	1th semester, 15 weeks		
7. ECTS credits number	5		
8. Total workload and time allotment	Directed study		Self-directed study
	Lectures	Practicals	Labs
	<b>16</b>		<b>30</b>
9. Language of instruction	English		
10. Module leader contact information	KovalenkoLm4@gmail.com <a href="https://vet.snau.edu.ua/en/">https://vet.snau.edu.ua/en/</a>		

### General description of the discipline

**Discipline "ICHTHYOPATHOLOGY"** covers aspects of the formation of a modern specialist veterinarian in-depth theoretical knowledge on the study of general patterns of fish diseases; practical skills in laboratory research methods. Knowledge provides an opportunity to ensure sustainable veterinary welfare of fisheries, high quality fish products dangerous to human consumption.

**The main purpose** of the discipline is to train highly qualified specialists who are able to solve complex problems in the conditions of production related to the formation of deep theoretical knowledge on the study of general and temporal patterns of fish diseases; practical skills in laboratory research methods in the examination of sick and suspected fish.

**The main forms** of training are laboratory-practical (group work, dialogue training) and individual (work with literature, Web-pages of software, preparation of multimedia reports on materials: the role of fish in the spread of certain infectious, invasive, non-communicable diseases, selective macroproduction) occupation.

### Evaluation methods are:

assessment of the level of knowledge demonstrated in the oral answers, and activity during the discussion of issues raised in class; o the use of rapid tests for self-assessment of knowledge, o computer test results; o written answers to tests on the topics of independent work; o constant feedback from students, analysis of current successes

### **Topics of laboratory - practical classes**

1. Veterinary and sanitary measures that promote the efficiency of fisheries.
2. Disinfection and disinfection of ponds, fishing gear, equipment, transport, containers, overalls, hatcheries.
3. Infectious diseases of fish.
4. Viral diseases: spring viremia of carp, viral hemorrhagic septicemia of trout.
5. Bacterial diseases: carp aeromonosis, pseudomonosis, enteric disease.
6. Infectious diseases of fish.
7. Fungal diseases: bronchiomycosis, saprolegniosis, ichthyosporidiosis.
8. Invasive fish diseases.
9. Protozoa. Disputes.
10. Invasive fish diseases.
11. Helminthiasis: monogenoidosis, trematodes, cestodes, nematodes.
12. Non-communicable diseases of fish.
13. Alimentary diseases: avitaminosis, hypervitaminosis.
14. Non-communicable diseases. Functional diseases.
15. Poisoning of fish with pesticides, herbicides, poor quality feed.