Annotation of the selective educational component

Academic discipline	**Cold-water fishery**
Lecturer	Nataliia Hrynevych Doctor of veterinary sciences, Professor Department of Ichthyology and Zoology
The course and semester, when the discipline is planning to study	4th course, 7th semester
Faculties whose students are invited to study discipline	Faculty of Ecology
List of competencies and learning-related outcomes that discipline provides	According to the requirements of the educational and professional program "Aquatic bioresources and aquaculture", students must acquire the ability to acquire the following competencies: – GC (general competence) 8. Knowledge and understanding of the subject area and understanding of professional activities – SC (special competence) 9. Ability to perceive new knowledge in the field of aquatic bioresources and aquaculture and integrate it with existing ones. – SC 11. The ability to evaluate technologies for growing water objects, and fishing gear and find solutions that meet the goals and existing restrictions. The result of training in the discipline is the acquisition by students of such knowledge and skills: - Be able to apply international and national standards and practices in professional activities. - To know and understand the aquaculture of cold-water objects on the modern development of aquatic bioresources and aquaculture. - To know the basics of the technology of reproduction of salmon species of fish. - Know the procedure for carrying out technological stages for the artificial breeding of objects of cold-water fish farming. - Understand the problems of fish farming and the conservation of the gene pool of valuable fish species. - Be able to apply new methods of growing cold-water objects.
Description of the discipline	
Preconditions necessary for the study of the discipline **The maximum number of students who can study simultaneously**	The selective academic discipline "Cold-water fishery" is based on the knowledge of such disciplines as "Morphology of fish", "Hydrobiology", "Biological bases of fisheries", "General Ichthyology", "Special Ichthyology", "Aquaculture of artificial reservoirs", "Ichthyopathology". Lectures - 50 students Practical - 25 students

Lesson plans	**Lectures** 1. Current state and prospects for the development of cold-water fish farming in Ukraine and the world. 2. Characteristics of salmon as objects of cold-water fish farming. 3. Characteristics of cold-water farms in Ukraine and the world. 4. Iris reproduction and retention technology. 5. Technology of reproduction and maintenance of whitefish species. 6. Technology of reproduction and retention of noble salmon. 7. Preventive and therapeutic measures in cold-water fish farming. **Practical classes** 1. Introduction. Security technique. academic virtue. Characteristics of forms and breeds of rainbow trout. 2. Morphometric analysis of salmon species. 3. Water supply and capacity of trout farms. 4. Hydrochemical monitoring of cold-water farms. 5. Basic processes for the reproduction and retention of rainbow trout. 6. Selection of producers and selection of parent pairs. 7. Collection of eggs and the process of fertilization. 8. Incubation of salmon caviar. 9. Transportation of fertilized eggs and sperm. 10. Keeping free embryos. 11. Growing larvae. 12. Growing fry, one-year-olds and one-year-olds. 13. Growing marketable products. 14. The content of different age groups. 15. The need for salmon species of fish in the nutritional elements of feed. 16. Calculation of extruded feed for feeding rainbow trout. 17. Components of systems for industrial cultivation of cold-water objects. 18. Preventive measures in cold-water fish farming. 19. Infectious diseases of the iris. 20. Invasive diseases of the iris. 21. Non-communicable diseases of the iris.
Teaching language	Ukrainian