Annotation of the selective educational component

Academic discipline	**Acclimatization of hydrobionts**
Lecturer	Oleksandr Khomiak Candidate of Agricultural Sciences, Associate Professor Department of Ichthyology and Zoology
The course and semester, when the discipline is planning to study	3rd course, 5th 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: – Integral Competence. The ability to solve complex specialized tasks and practical problems in the field of aquatic bioresources and aquaculture or in a learning process characterized by complexity and uncertainty of conditions, and involves the application of theories and methods of biology and applied sciences. – GC (general competence) 7. Ability to search, process, and analyze information from various sources. – GC 8. Knowledge and understanding of the subject area and understanding of professional activities. SC (special competencies) 1. Ability to analyze the conditions of the aquatic environment of natural origin, including anthropogenic impacts, in terms of fundamental principles and knowledge of aquatic bioresources and aquaculture. – SC 9. Ability to perceive new knowledge in the field of aquatic bioresources and aquaculture and integrate it with existing ones. The result of training in the discipline is the acquisition by students of such knowledge and skills: - Know the procedure for conducting acclimatization work, forms, types, and methods of acclimatization; - Know how to select forms for acclimatization; - Know the methods of purification of parties of immigrants from biological impurities, and bacterial, infectious, and parasitic lesions; - Know the means of transportation; - Know the procedure for transplantation. - Own the basic methods of biological substantiation of acclimatization; - be able to select and select objects of acclimatization; - be able to carry out preventive treatment of objects of introduction, reacclimatization, and acclimatization in water bodies of introduction; - Be able to generalize empirical data.

Description of the discipline	
Preconditions necessary for the study of the discipline	The selective academic discipline "Acclimatization of hydrobionts" is based on the knowledge of such disciplines as "Hydrobiology", "General Ichthyology", "Special Ichthyology", and "Biological bases of fisheries".
The maximum number of students who can study simultaneously	Lectures - 50 students Practical - 25 students
Lesson plans	**Lectures** 1. Categories of acclimatization of hydrobionts 2. Full-cycle and non-full-cycle acclimatization of hydrobionts 3. Restoration of connections between introduced species and the abiotic environment of the colonization reservoir 4. Restoration of connections between introduced species and the biotic environment of the colonization reservoir 5. General scheme for the implementation of acclimatization of hydrobionts 6. The concept of biotechnology of acclimatization of hydrobionts 7. Methods for cleaning planting material from associated species, parasites, and pathogens of infectious diseases **Practical classes** 1. Geographical and bioecological methods of selecting recruits. 2. Selection of species for acclimatization according to economic value 3. Selection of species for acclimatization based on the biological value 4. The concept of the receiving capacity of recipient water bodies. Ecological and biotic capacity 5. Factors determining the biotic capacity of recipient water bodies. Evaluation of the biotic capacity of recipient water bodies by types of trophic organization of hydrobiocenoses. 6. Main and promising objects for acclimatization work among fish 7. Main objects for acclimatization work among food invertebrates 8. Main and promising objects for acclimatization work among industrial invertebrates 9. Capture and placement of parties of introduced species before transportation and before release into the recipient reservoir 10. Conditions for transporting introduced species 11. Spontaneous settlement of hydrobionts and pollution of aquatic ecosystems 12. Evaluation of the impact of introductions of fish and food invertebrates on the fauna of water bodies of their introduction.
Teaching language	Ukrainian