

Annotation of the selective educational component

Academic discipline	Technical means in fisheries
Lecturer	Yurii Kunovskyi Candidate of Agricultural Sciences, Associate Professor Department of Aquaculture and Applied Hydrobiology
The course and semester, when the discipline is planning to study	3 rd course, 5 th semester
Faculties whose students are invited to study discipline	Faculty of Ecology
List of competencies and learning-related outcomes that discipline provides	<p>The result of training in the discipline is the acquisition by students of such knowledge and skills:</p> <p>Know:</p> <ul style="list-style-type: none"> - the general structure of the world production of water bodies and its distribution between individual systematic groups of aquatic organisms; - the main industrial regions of the World Ocean; - the state of stocks of traditional and promising fishery objects; - the nature of the impact of fishing intensity on hydrobiocenosis in different areas of the World Ocean; - possibilities of self-reproduction of hydrobiocenoses; - methods for determining the productivity of hydrobionts, their total and industrial stock; - methods for predicting the stocks of industrial hydrobionts. <p>Be able to:</p> <ul style="list-style-type: none"> - to analyze the statistical data of capture of industrial aquatic organisms in order to predict their stocks; - using the statistics of capturing hydrobionts from inland waters, analyze the dynamics of their capturing and fishing trends; - to determine the productivity of aquatic organisms, their total, and industrial stock.
Description of the discipline	
Preconditions necessary for the study of the discipline	The selective academic discipline "Technical means in fisheries" is based on the knowledge of such disciplines as "Zoology" and "Hydrobiology" studied in the 1st year, "Biological foundations of fisheries" studied in the 2nd year, and "Fishing" - in 3 courses.
The maximum number of students who can study simultaneously	Lectures - 50 students Practical - 25 students

<p>Lesson plans</p>	<p>Lectures</p> <p>Content module 1. Technical means for ensuring the processes of artificial reproduction, maintenance and rearing of larvae of commercial fish species</p> <p>Topic 1.1. Introduction</p> <p>Topic 1.2. Artificial reproduction of fish, equipment of incubation shops.</p> <p>Topic 1.3. Reproductive complexes</p> <p>Content module 2. Technical means for the production of feed and fish feeding</p> <p>Topic 2.1. Methods for cleaning feed raw materials of grinding and special processing of components.</p> <p>Topic 2.2. The system of technological methods for the production of feed for fish.</p> <p>Topic 2.3. Feed production methods.</p> <p>Topic 2.4. Complex mechanization of feed preparation.</p> <p>Topic 2.5. Equipment and mechanisms for the distribution of feed.</p> <p>Content module 3. Technical means for land reclamation work on fishery reservoirs</p> <p>Topic 3.1. The concept of fishery melioration.</p> <p>Topic 3.2. Works on hydromechanized cleaning of ponds.</p> <p>Topic 3.3 Equipment and mechanisms for fertilizing ponds.</p> <p>Topic 3.4. Equipment and mechanisms for filtration and aeration of water intended for the needs of aquaculture.</p> <p>Content module 4. Technical means for catching water bodies, sorting and loading marketable fish into vehicles and transporting live fish.</p> <p>Topic 4.1. Catching fish in ponds of various types.</p> <p>Topic 4.2. Equipment for sorting and accounting.</p> <p>Topic 4.3. Equipment for the transport of live fish.</p>
<p>Teaching language</p>	<p>Ukrainian</p>