

### Annotation of the selective educational component

<b>Academic discipline</b>	<b>Fishery resources</b>
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<b>The course and semester, when the discipline is planning to study</b>	4 <sup>th</sup> course, 7 <sup>th</sup> semester
<b>Faculties whose students are invited to study discipline</b>	Faculty of Ecology
<b>List of competencies and learning-related outcomes that discipline provides</b>	<p>According to the requirements of the educational and professional program "Aquatic bioresources and aquaculture", students must acquire the ability to acquire the following competencies:</p> <p>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.</p> <ul style="list-style-type: none"> <li>– GC (general competence) 8. Knowledge and understanding of the subject area and understanding of professional activities.</li> <li>– GC 11. Ability to identify, identify and resolve problems.</li> <li>– GC 12. Ability to conduct research at the level.</li> <li>– SC (special competence) 4. The ability to predict the dynamics of abundance and biomass, to forecast fish productivity.</li> <li>– SC 9. Ability to perceive new knowledge in the field of aquatic bioresources and aquaculture and integrate it with existing ones.</li> <li>– SC 11. The ability to evaluate technologies for growing water objects, and fishing gear and find solutions that meet the goals and existing restrictions.</li> </ul> <p>The result of training in the discipline is the acquisition by students of such knowledge and skills:</p> <ul style="list-style-type: none"> <li>- To know and analyze the structure of modern fishing for aquatic organisms and the production of world aquaculture products.</li> <li>- To know the features of the structure of the raw material base of the fishery industry as an integral part of the biological resources of the hydrosphere.</li> <li>- Know the features of the formation of the raw material base of the fishery industry in Ukraine.</li> <li>- Analyze the production of freshwater and marine aquaculture products in Ukraine, import and export of industrial hydrobionts, and determine the place of Ukraine in</li> </ul>

	<p>the global seafood market.</p> <ul style="list-style-type: none"> <li>- Know the methods for determining the potential fish productivity of water bodies and accounting for fish stocks and methods for compiling fishing forecasts.</li> <li>- Determine directions for intensifying the use of fishery objects and increasing the production of aquatic organisms in Ukraine.</li> </ul>
<b>Description of the discipline</b>	
<b>Preconditions necessary for the study of the discipline</b>	The selective academic discipline "Fishery resources" is based on the knowledge of such disciplines as "Zoology", "Morphology of fish", studied in the 1st year, "Hydrobiology", "General Ichthyology", "Biological basics of fishery" 2nd and "Special Ichthyology", "Fishing", "Fundamentals of Mariculture", "Fish breeding and selection" - in the 3rd year.
<b>The maximum number of students who can study simultaneously</b>	<p>Lectures - 50 students</p> <p>Practical - 25 students</p>
<b>Lesson plans</b>	<p><b>Lectures</b></p> <ol style="list-style-type: none"> <li>1. Raw material base of the fishery industry of Ukraine as an integral part of the biological resources of the hydrosphere.</li> <li>2. Structure of modern capture of hydrobionts</li> <li>3. Raw materials of the open part of the World Ocean and exclusive economic zones of the countries of the world</li> <li>4. Raw materials of the Azov and Black Seas</li> <li>5. Raw materials of inland waters of Ukraine</li> <li>6. World aquaculture products</li> <li>7. Fishing for hydrobionts outside the exclusive economic zone of Ukraine</li> <li>8. Fishing for hydrobionts in the Azov and Black Seas</li> <li>9. Fishing for hydrobionts in inland waters of Ukraine</li> <li>10. Production of freshwater and marine aquaculture products in Ukraine</li> <li>11. Import-export of industrial hydrobionts to Ukraine. Place of Ukraine in the world seafood market</li> <li>12. Directions for intensifying the use of fishing objects and increasing the production of hydrobionts in Ukraine</li> <li>13. Methods for determining the potential fish productivity of water bodies and accounting for fish stocks</li> <li>14. Methods for compiling industrial forecasts. Industrial cards.</li> </ol> <p><b>Practical classes</b></p> <ol style="list-style-type: none"> <li>1. Determination of the raw material base of the fishing industry, its socio-economic significance.</li> <li>2. The structure and volumes of production of various biological groups of industrial hydrobionts.</li> <li>3. Characteristics of the industrial regions of the World Ocean.</li> <li>4. Characteristics of the main industrial hydrobionts of the open part of the World Ocean and exclusive economic zones of the countries of the world. The dynamics of their catch and</li> </ol>

<p><b>Teaching language</b></p>	<p>fishing trends.</p> <p>5. Industrial hydrobionts of the Azov and Black seas. The structure and dynamics of their catch. Fishing trends in the region.</p> <p>6. Industrial hydrobionts of inland water bodies of Ukraine. The structure and dynamics of their catch, fishing trends.</p> <p>7. Objects of freshwater and marine aquaculture, traditional and promising.</p> <p>8. Dynamics, structure, and prospects of production of aquaculture products in Ukraine.</p> <p>9. Ways of intensification of catching hydrobionts and growing aquaculture products in Ukraine.</p> <p>10. Methods of determining stocks of industrial hydrobionts.</p> <p>11. Methods of making industrial forecasts.</p> <p>12. Methods of compiling fisheries maps.</p> <p>Ukrainian</p>
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