

## Abstract of the educational component

<b>Name educational component</b>	<b>Biotechnology in aquaculture</b>
<b>Teacher</b>	Petro Vered candidate of agricultural sciences, Associate Professor of the Department of Ecology and Biotechnology
<b>The course and semester in which the study of the educational component is planned</b>	2 year, 3 semester
<b>Faculties whose students are offered to study the educational component</b>	Faculty of Ecology, specialty 207 "Aquatic biological resources and aquaculture"
<b>List of competencies and relevant learning outcomes provided by the educational component</b>	<p>Competencies (GC - general, SC - special)</p> <p>GC 04. Ability to make informed decisions. SC 03. To ensure the formation and effective use of the bioproductivity of different types of reservoirs and the productive properties of fish.</p> <p>Program Learning Outcomes (PLO)</p> <p>PLO 01. Have specialized conceptual knowledge that includes modern scientific achievements in the field of aquatic bioresources and aquaculture and is the basis for original thinking and conducting research. PLO 07. To develop, implement and apply effective technological processes of production of aquaculture products, to ensure its quality</p>
<b>Description of the educational component</b>	
<b>Prerequisites necessary for studying the discipline</b>	The educational discipline "Biotechnology in aquaculture" is based on the knowledge obtained from the discipline "Methodology and organization of scientific research", "Recirculating systems of aquaculture", "Non-traditional objects in aquaculture" (studied in previous courses) and is interconnected with the discipline "Nanotechnology in aquaculture", which is studied in the master's degree.
<b>The maximum number of students who can study at the same time</b>	25 students
<b>Subjects of classroom classes</b>	<p><b>Lecture topics:</b></p> <ol style="list-style-type: none"> <li>1. Introduction. General information about biotechnology and its application in aquaculture.</li> <li>2. Genetic engineering and molecular biology.</li> <li>3. Biotechnologies of production of veterinary drugs for</li> </ol>

<b>Language of teaching</b>	aquaculture. 4. Application of feed additives as a method of intensification of aquaculture technologies. 5. Cultivation of microalgae.  <b>Topics of practical classes</b> 1. Safety training. Academic integrity. 2. Cultivation of spirulina. 3. Vermiculture biotechnology for aquaculture. 4. Immobilization of feed additives.  <b>Ukrainian</b>
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