

### Annotation of the selective educational component

<b>Academic discipline</b>	<b>Aquadesign</b>
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<b>The course and semester, when the discipline is planning to study</b>	3 <sup>rd</sup> course, 6 <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>	The result of training in the discipline is the acquisition by students of such knowledge and skills: - to use knowledge and understanding of biotopes of water bodies, life forms of aquatic organisms, the influence of factors on aquatic organisms, and their vital activity when growing objects of aquatic biological resources in artificial reservoirs; - use knowledge and understanding of the origin and structure, lifestyles, distribution of pisciformes and fishes, biological characteristics of pisciformes and fishes during their rearing and maintenance in water bodies, and the design of the device
<b>Description of the discipline</b>	
<b>Preconditions necessary for the study of the discipline</b>	The academic discipline "Aquadesign" is based on the knowledge of the cycle of disciplines: "General Ichthyology", "Special Ichthyology", "Biological Basis of Fisheries", "Cultivation of non-fish objects"
<b>The maximum number of students who can study simultaneously</b>	Lectures - 50 students Practical - 25 students
<b>Lesson plans</b>	<b>Lectures</b> 1. Introduction to the basics of aqua design. Definition of basic concepts 2. Overview of Aquarium Gardening Products 3. Introduction to composition, and bases. The use of stone, wood and soil in aqua design. 4. Water and surface plants in aqua design, and their influence on the aquatic environment. 5. Breeding and maintenance of the main species of aquatic and emersed plants 6. Invertebrates and fish in aquadesign, means of maintaining their vital activity. 7. Breeding and maintenance of the main fish species 8. Synergy of living organisms in aqua design, formation of a favorable environment for their coexistence. 9. Methods for maintaining the constancy of the medium of

	<p>the aquarium composition and means of control</p> <ol style="list-style-type: none"> <li>10. The main styles of aqua design and aquarium gardening.</li> <li>11. Economic feasibility in the choice of means of composition and al expression in aqua design, the use of local living and non-living materials in the design of an aquarium composition.</li> <li>12. Acquaintance with the means of manual and computer graphics in the development of solutions for compositions in aqua design;</li> <li>13. Criteria for evaluating the quality of a composition solution in aqua design</li> <li>14. Promising trends in aqua design, aquascaping;</li> </ol> <p><b>Practical classes</b></p> <ol style="list-style-type: none"> <li>1. Acquaintance with examples of modern trends in aqua design</li> <li>2. Development of a program and specification of an aquarium composition, its economic justification</li> <li>3. Drawing up a preliminary sketch of the aquarium composition and its deletion in manual graphics.</li> <li>4. Making a collage of photographic materials of living and inanimate materials of the developed composition</li> <li>5. Protection of the aquarium composition solution project</li> </ol>
<b>Teaching language</b>	Ukrainian