

Summary of the elective course

Name of the discipline	Prediction of fish catch
Teacher	Kunovskyi Yurii Volodymyrovych Candidate of Agricultural Sciences, Associate Professor of the Department of Aquaculture and Applied Hydrobiology
Course and semester in which the discipline is planned to be studied	2 rd year, 3 semester
Faculties, students of which are offered to study the discipline	Faculty of Ecology
List of competences and relevant learning outcomes provided by the discipline	<p>The result of studying the discipline is the acquisition of the following knowledge and skills by students:</p> <p>Knowledge:</p> <ul style="list-style-type: none"> - types of populations of commercial fish species; - patterns of population dynamics of fish populations; - methods for determining the number of fish; - methods for determining the productivity of hydrobionts, their total and industrial reserves; - methods for forecasting reserves of commercial hydrobionts. <p>Ability to:</p> <ul style="list-style-type: none"> - make a dimensional and age structure of spawning fish populations. - analyze the statistical data of catching industrial hydrobionts in order to predict their reserves; - determine natural mortality rates; - analyze the dynamics of their catch and fishing trends; - calculate the number of populations by various methods; - make short-term and long-term catch forecasts.
Description of the discipline	
Prerequisites for studying the discipline	There is no
Maximum number of students who can study at the same time	25 students
Topics of classroom classes	<p>Lecture topics</p> <p>Topic 1. General biological patterns of formation of an industrial herd of fish.</p> <p>Topic 2. Dynamics of the structure and number of fish populations with different life expectancy.</p> <p>Topic 3. Basic principles of forecasting the dynamics of fish populations.</p> <p>Topic 4. Methods of studying fish stocks.</p> <p>Topic 5. Number and management of fish populations.</p> <p>Topic 6. Modern methods for determining the number of fish.</p> <p>Topic 7. Ecological forecasting of ichthyofauna of freshwater reservoirs.</p> <p>Topic 8. Directed formation of ichthyofauna and management of fish populations.</p> <p>Topics of practical classes</p>

Language of instruction

- Topic 1. Introduction. Safety. Academic integrity. Study of the size and age structure of the fish population.
- Topic 2. Study of sexual structure of fish population and reproductive possibilities of fish population.
- Topic 3. Determination of fertility and maturity of sex products in fish.
- Topic 4. Determination of reproduction efficiency of spawning stock of fish.
- Topic 5. Determination of the number of fish populations by various methods.
- Topic 6 Calculation of natural mortality in fish.
- Topic 7. Preparation of short-term forecasts of fish catch.
- Topic 8. Making long-term forecasts of fish catches.

Ukrainian, English