Department of General Ecology and Methods of Biology Teaching // The Faculty of Biology. Belarussian State University. English Version.

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At present the department is headed by prof. Grichik Vasily Vitalievich. The teaching staff of the department consists of 2 doctors of sciences, 6 associate professors, 2 senior lecturers, 1 assistant. The teaching process is organized with the help of 2 members of auxiliary personnel.
Staff:

Professors: V.V. Grichik, Ya. K. Kulikov.
Senior lecturer: M.L. Minets, E.E. Gayevsky.
Assistants: O.S. Smolskaya.
Methodologist: S.N. Tarasevich.
Technicians: V.V. Kuzmenko.

Higher education staff training

For the period of the department existence the doctoral thesis and two candidate's theses have been defended. Every year 1-2 post-graduates take training courses at the department.

The teaching staff provides lecturing and study process on the following subjects:
- Methods of Biology Teaching (prof. V.V. Grichik, ass. prof. E.A. Kozlov)
- Methods of Educational Work (ass. prof. V.V. Grichik)
- General Ecology (ass. prof. T.A. Makarevich)
- Soil Science (prof. Ya. K. Kulikov)
- Plant and Animal Resources (ass. profs. V.V. Chernik, V.V. Grichik)
- Ecological Monitoring, Control and Expertise (ass. prof. T.A. Makarevich)
- Agroecology (prof. Ya. K. Kulikov)
- Introduction to Speciality (all staff)
- Specially protected natural areas (ass. prof. O.L. Nesterova)
- Ecological Physiology (ass. prof. O.L. Nesterova)
- Primary producers (ass. prof. T.A. Makarevich)
- Radioecology (ass. prof. T.A. Makarevich)
- Hydroecology (ass. prof. T.A. Makarevich)
- Population ecology (ass. prof. A.A. Zhukova)
- Biotic cycling in ecosystems (prof. V.V. Grichik, ass. prof. T.A. Makarevich, ass. prof. O.L. Nesterova)

**Special subjects for students that specialize in ecology:**

- Ecological problems of Belarus (prof. Ya. K. Kulikov)
- Global ecology (ass. prof. E.A. Kozlov)
- Ecology of a human being (ass. prof. N.G. Eryomova)
- Ecology of urban surrounding (ass. prof. G.A. Semenyuk)
- Landscape ecology (prof. Ya. K. Kulikov)
- Bioindication of the environmental quality (s. lecturer A.A. Zhukova)
- Soil resources (prof. Ya. K. Kulikov)

**Main trends of research and methodological activity of the department:**

- distribution and ecological effects of invasive water species in Belarus;
- study of population and fenetic structure of coleopterous in swamp and forests;
- zooplankton communities functioning in waterbodies of urban areas;
- biodiversity of animals in flood-plain landscapes in Belarus;
- the increase of agricultural lands productivity based on the optimization of soil ecological factors;
- the role of attached communities (periphyton, microphytobenthos) in water ecosystems;
- autotrophic communities functioning in freshwater ecosystems;
- insect ecology;
- theoretical basis of teaching and methodical complexes and school biology textbook;
- working out the system of ecology teaching with the use of modern conceptions of natural sciences;
- development of new methods of controlling students works;
- working out and editing the teaching and methodical manuals in ecology.

**Key scientific and applied achievements:**

- methodic recommendations on soil optimization have been worked out and approved in Agricultural Ministry;
- means of sod-podzol and turfy soil optimization aimed at getting of highly productive cultures;
- methodic recommendations on precipitation tank periphyton use for sewage waters cleansing have been worked out;
- scientific and methodical base for biota monitoring in drinking water have been developed;
- the first electronic database on aquatic invaders in Belarus has been created;
- the differences in fenetic structure of carabus populations in different parts of the republic have been established;
- the possibility to assess the water quality based on reproduction potential of Crustacea has been ascertained;
- the reconstruction of some stages of bird subspecies distribution in Holocene on the territory of Belarus has been done;
- school-books and manuals on biology for 7-11 classes have been written;
Manuals for recent years:

- Semenchenko V.P. Consumers and Their Role in Ecosystems: Lectures course. Minsk: BSU, 2004. 95 p. (in Russian)

Main scientific publications:

330-344.


- Makarevich T.A. Periphyton contribution to the total primary production in freshwater ecosystems (survey) // Vestnik of the Tumen State University. - № 5. - 2005.- P. 77-86. (in Russian)


- Gričik V.V. Zur Verbreitung und Biologie einiger Vogelarten des südöstlichen Altaj (1. Teil) (pdf eLybraryBSU)

- Gričik V.V. Zur Verbreitung und Biologie einiger Vogelarten des südöstlichen Altaj (3. Teil) // Ornithologische Mitteilungen, 2015, № 11/12, pp. 315 –324.(pdf)


