Studied disciplines

Obligatory

Applied Zoology
Arachnology
Entomology
Evolution and phylogeny of animals
Malacology
Natural Basis of Transmissive Infections and Parasitic Diseases
Phytonematology
Practice in Applied Zoology
Soil zoology
Taxonomy and faunistics
Zoomonitoring

Elective

Biology of pollination
Ecological physiology of animals
Behavior of insects
Fauna diversity of aquatic Invertebrates
Protozoology and other

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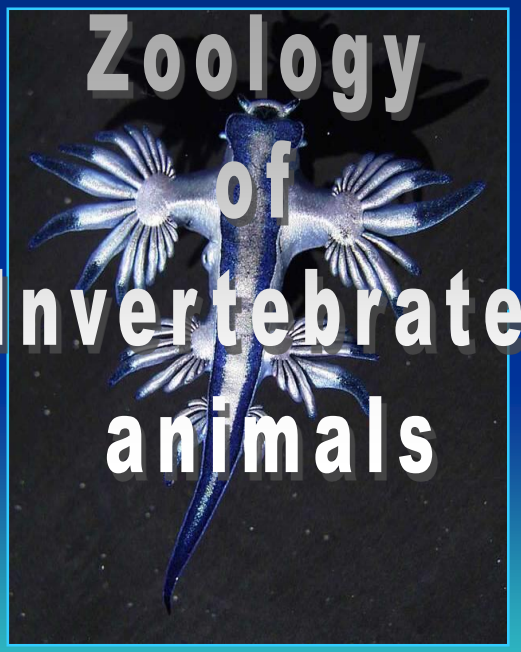
Sofia University
"St. Kliment Ohridski"

Faculty of Biology

Department of Zoology and Anthropology

Master's program of Zoology:
Module



THE MASTER'S PROGRAM consists of lection courses in 10 obligatory and two choose able disciplines, combined with practical studies and seminars, and is designed for students with interests in the field of contemporary zoological studies. The training for a master's degree in Zoology ("Zoology of Invertebrate animals") enriches an broadens the attained base knowledge in the bachelor's degree in Biology.
The knowledge about morphology, anatomy, structure and function of the separate systems, reproduction and development, systematics and the distribution of a variety of species is constructed. Knowledge about the evolution and phylogeny of animals are structured by learning the basic evolution principles, paleontological data and main theories in evolution and phylogeny. Students are familiarized with the fauna diversity of Bulgaria and the related conservation and restoration of the animal gene fund.
The knowledge of developing zoomonitoring programmes and the application of the separate indicator and monitor species and groups of invertebrate animals, as well as structural parameters of their communities for biological evaluation of pollution of terrestrial and aquatic ecosystems.
Attention is given to the applied aspects of zoology, related to laboratory and industrial cultivation of a variety of invertebrates, as well as methods for conserving, preparing and development of different kinds of preparations and slides.

Professionals goals

The master's program will give the opportunity for professional realization in the research and teaching activities. It aims to motivate the students toward scientific research, related to the preparation and defense of a PhD thesis and the attaining of the **Doctor's Degree** (PhD).

Possible realization and future development

The **Masters in Zoology of Invertebrate animals** posses profound knowledge in the field of theoretical and applied Zoology, which give them the ability to work alone on research and applied projects in all branches of the zoological science, here in Bulgaria and abroad, as well as to take part in the teaching of various zoological disciplines.
They can find their professional realization in the various institutes of Bulgarian Academy of Sciences which deal with fundamental research in the field of Zoology, Parasitology, and Ecology as well as in different national institutions (museums, ministries), humanitarian and veterinarian medicine, agriculture and so on.
The qualification of the **Masters** gives them the ability to work in different nature preserving organizations, nature reserves, parks and scientific laboratories dealing with the problems of conservation of the fauna diversity and the application of zoomonitoring as a biological evaluation of different pollutants on the environment.
The students who have finished this program have the knowledge not only in anatomy, morphology, systematics, biology, ecology and animal behavior, but they are familiar with the methods for collecting, keeping, conserving, taxodermy and development of different preparations and slides from invertebrate and vertebrate animals and their cultivation in laboratory and industrial conditions. This allows them to not only work in natural museums, but to create the needed organization and to find the machinery for management of farms and companies dealing with the industrial cultivation of important species of invertebrate and vertebrate animals.

Duration of the program

The duration of the course is three terms, from which I and II include auditory, laboratory and practical activities and III term is for developing and defense of the Thesis.

Condition of acceptance

The exam evaluation is based upon the European Credit Transfer System (**ECTS**), and the whole program is worth a total of 90 credits.
FORM OF TRAINING: **Regular**
Candidates can be Bachelors from professional fields Biological Science, Biotechnologies, Pedagogics of training in "Biology and Chemistry" "Biology and English", and "Geography and Biology", as well as Bachelors from other fields - Agricultural science, Veterinary Medicine, Health Care.