

**Content of the programme**  
**Obligatory courses**

Disciplines	Lectures	Exercises	Credits
Parasitic Protozoa of Man and Animals	30	30	6.0
Animal and Human Helminths	45	45	7.0
Arachnology	45	45	6.0
Natural Centers of Transmissible Infections and Parasitic Diseases	30	15	4.0
Practice in parasitology, part I	-	45	3.0
Origin, Evolution and Ecology of Parasitism	30	15	4.0
Plant Parasitic Nematodes	30	30	5.0
Medical and Veterinary Entomology with Acarology	45	45	6.0
Medical Terriology	45	30	6.0
Practice in parasitology, part II	-	45	3.0
Prediplom Practicum	-	90	15
Study and Research Practice	-	28	2.0

**Choice courses**

Disciplines	Lectures	Exercises	Credits
Taxonomy and Faunistics	45	15	4.0
Applied Zoology	30	30	4.0
Cell and Molecular Mechanisms of the Immune Answer	45	15	4.0
Selected Methods in Molecular Biology	30	15	4.0
Biological Control of Insect Pests	30	30	4.0
Phytoviruses	30	30	4.0
Cell pathogens	30	30	4.0



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**Sofia University**  
**"St. Kliment Ohridski"**

**MASTER PROGRAMME**  
**PARASITOLOGY**



**Department**  
**Zoology and Anthropology**

**Faculty of Biology**

## 1. Objectives

The purpose of the programme is to give graduates thorough knowledge in parasitology, which includes:

- Origin and evolution of the parasitism and the adaptations for parasitic life
- Systematics, taxonomy, species composition, distribution and the pathogenicity of the parasites with the greatest importance for human and veterinary medicine.
- Ecological characteristics, parasite's life cycles and host-parasite interactions
- Peculiarities of the invasion processes with respect to the possibilities for sanitary and parasitological control
- Methods for detection of parasites and diagnostics of the diseases they cause.



*Taenia crassiceps* (photo K. Bachvarov)

## 2. Qualifications and Job Opportunities

Successfully graduated students are able to conduct an independent scientific research.

- The qualifications of the graduates give them possibilities to perform complete parasitological investigations for diagnostics of the parasitic diseases including:
  - taking of samples for analyses

- isolation and identification of the parasites
- estimation of intensity of host invasion

➤ The knowledge and skills of the graduates give them the following job opportunities:

- To work in all scientific institutes and parasitological laboratories
- Plant protection laboratories for detection and control of plant parasites
- Veterinary and medical units for diagnostics of man and animal parasites.
- Laboratories for control of the presence of parasites in food products.

## 3. Structure of the Programme

The Master programme duration is three semesters, starting with an winter semester and includes:

- 10 obligatory disciplines
- two choice disciplines
- one obligatory study and research practices
- prediplom practicum
- a degree project (thesis) in parasitology

All disciplines are relevant to 90 credits – 30 credits for each semester.

## 4. Requirements for the candidates

The candidates must have bachelor's degree in the following professional directions: Biological Sciences; Biotechnology; Pedagogic of the

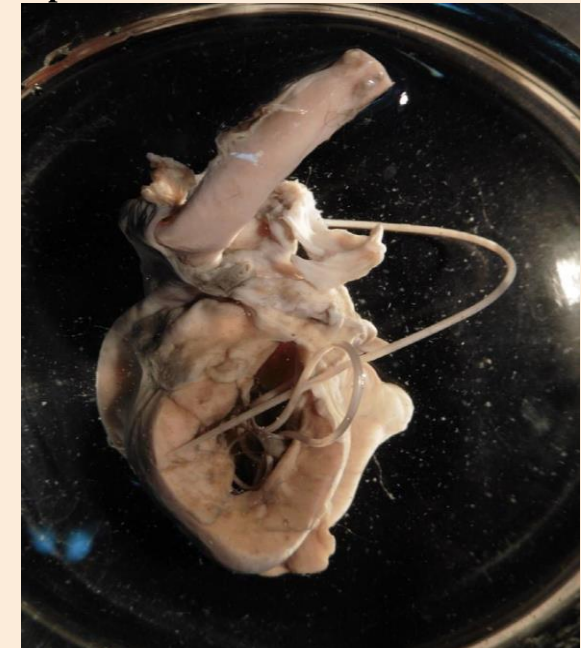
education in Biology and Chemistry, Geography and Biology, Biology and English; Human and Veterinary Medicine; Agricultural Sciences.

## 5. Acceptance requirements

The acceptance of the candidates is on the bases of the competition score, which is estimated from:

- ✓ Double mark from the competition exam, which is performed on the base of the previously announced subjects.
- ✓ The mean of the diploma from the high school
- ✓ The mark for the discipline “Invertebrate Zoology” from the high school diploma.

Students for the paid training are accepted without exam, on the base of their high diploma score.



*Dirofilaria immitis* (photo K. Bachvarov)