

**Ministry of Health of the Russian Federation
Federal State Budgetary Educational Institution
higher education
"DAGESTAN STATE MEDICAL UNIVERSITY"**

(FSBEI HE DSMU of the Ministry of Health of Russia)

**ANNOTATION
TO THE WORKING PROGRAM OF THE DISCIPLINE
"ECOLOGY OF PARASITES"**

Discipline Index : – **B1.V.DV.**

Specialty (direction): **05/31/01 "General Medicine"**

Level of higher education: **Specialist**

Graduate Qualification: **medical doctor**

Faculty: **medical**

Department: **medical biology**

Form of study: **full-time**

Course: 1

Semester: **II**

Total labor input (in credit units/hours): **2 c.u. _ / 72 hours**

Lectures: **8 hours**

Practical training: **16 hours**

Independent work: **48 hours**

Form of control: **credit after II semester**

I. _ PURPOSE AND OBJECTIVES OF MASTERING THE DISCIPLINE

The purpose of studying the discipline "Ecology of Parasites" is to form students' deep basic knowledge of the ecology of parasites, which determine the existence and interaction of a human with parasitic systems of different levels of organization (organisms, populations, biocenoses and ecosystems).

Tasks:

1. To study the biological foundations of the historical development and the current state of ideas about parasitism;
2. To study the circulation of pathogens in nature;
3. To disclose the relationship between general and particular issues of epidemiology and epizootology of a number of major parasitic diseases;
4. To determine the links between the taxonomy and ecology of parasites and vectors, the patterns

- of formation of life patterns of the main groups of parasites and vectors;
5. To study the main categories of parasitic diseases (anthroponoses, anthroozoonoses , zoonoses);
 6. To disclose patterns of formation of natural and anthropurgic foci of parasitic diseases;
 7. To develop scientific foundations for the diagnosis and treatment of parasitic diseases based on knowledge of the harmful effects of parasites, as well as methods for the prevention and control of parasites and vectors;
 8. To create a system that ensures the prevention and elimination of parasitic diseases.

II . PLANNED OUTCOMES IN THE DISCIPLINE

Code and name of competence	Code and name of the indicator of achievement of competence
General professional competencies	
GPC-2- Able to conduct and monitor the effectiveness of prevention measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	ID-2 GPC-2 Carries out activities for prevention, promotion of a healthy lifestyle and sanitary and hygienic education of the population
Know: basic concepts and problems of ecology, the phenomenon of parasitism and bioecological diseases; -definitions of the concept of "parasites" according to V.A. Dogel ; - the origin of parasitism; - forms of parasitism, relationships in the "parasite-host" system, concepts and terms: anthroponosis and zoonosis, parasitic natural focal, transmissible and non-transmissible diseases ; - the teaching of E.N. Pavlovsky (our countryman) about the natural foci of diseases; - the structure of the natural focus; - safety regulations and work in physical, chemical, biological laboratories with reagents, instruments, animals.	
Be able to: -correctly use the concepts and terms on the ecology of parasites; -use knowledge of the ecology of parasites for the identification of human parasites, diagnosis and prevention of parasitic diseases; - use physical, chemical and biological equipment.	
Own: - basic concepts and terms on the ecology of parasites; - identification of the parasite at different stages of development (egg, larva, adult).	

III . THE PLACE OF DISCIPLINE IN THE STRUCTURE OF THE EDUCATIONAL PROGRAM

The academic discipline "Ecology of parasites" refers to block B 1.V.DV. variable part of the disciplines.

In accordance with the current curriculum in the specialty 31.05.01 General Medicine is studied in the second semester.

The ecology of parasites is in a logical and meaningful-methodical connection with such disciplines of the basic part of the natural science cycle as biology; general hygiene, medicinal plants of Dagestan; normal physiology; microbiology, virology.

The basic knowledge necessary to study the discipline is formed:

- in the study of humanitarian, social and economic disciplines (philosophy, bioethics, psychology);
- in the study of mathematical, natural sciences, biomedical disciplines (medical and biological physics, general and inorganic chemistry, organic chemistry, analytical chemistry, molecular biology, botany);
- in the study of professional and special disciplines (first aid, emergency medicine, life safety, general hygiene).

4. Labor input of the EDUCATIONAL DISCIPLINE is 2 credit units, 72 academic hours.

Lectures - 8 hours

Practical classes - 16 hours.

Independent work - 48 hours.

5. SECTIONS OF THE EDUCATIONAL DISCIPLINE AND COMPETENCES THAT SHOULD BE MASTERED WHEN STUDYING THEM

No.	Name of the discipline section
one	General parasitology
2	Medical protozoology
3	Medical helminthology
4	Medical arachnoentomology

6. FORM OF INTERIM CERTIFICATION.

Credit - in the 2nd semester

Department-developer Department of Medical Biology