**ANNOTATION**

**Work program of the discipline**

**«Forensic ecological examination»**

**1. Name of the educational program in which the discipline is read**

The discipline «Forensic ecological examination» is an optional course and refers to the variable part of the disciplines of Block 1 in the system of training of masters in the direction 06.04.01 – «Biology».

**2. The overall complexity (in ECTS)**

The complexity of the discipline is 5 credits, 180 hours. The classroom hours are 90, including lectures - 18 hours, practical classes - 36 hours, laboratory classes - 36 hours; independent work of students - 90 hours.

**3. The place of discipline in the educational program’ structure**

The discipline «Forensic Ecological Expertise» is the final in the cycle of disciplines of the Federal State Educational Standard of Higher Education (Russia) in the direction 06.04.01 – Biology. Discipline is built into the structure of the EP (a sequence of disciplines in the curriculum) both in terms of continuity of content, and in terms of the continuity of the process of formation of graduate competencies.

**4. The purpose of studying the discipline**

Formation of students’ ideas about biological objects in the practice of production of forensic biological examinations.

**5. Requirements for the results of mastering the discipline**

In accordance with the Federal State Educational Standard of Higher Education (Russia) in the direction of training 06.04.01 - Biology (Master’s level) discipline is aimed at the formation of the following competencies:

General Professional Competences (GPC):

GPC-3 - readiness to act in non-standard situations, to bear social and ethical responsibility for the decisions made.

Professional Competences (PC)

PC-2 – ability to plan and implement professional activities (in accordance with the orientation (profile) of the graduate program)

PC-4 – the ability to generate new ideas and methodological solutions

As a result of mastering the discipline, the student must:

***To know:***

1. The classification of forensic examinations and the place of forensic biological examinations in the system of forensic examinations.

2. Methodological principles and methodological techniques for the assessment and examination of objects of biological origin for solving various scientific and practical problems.

3. Basic principles of planning, organizing and conducting expert research in the system of civil, administrative, arbitration and criminal proceedings.

***Be able to do:***

1. To characterize objects of biological origin in solving problems of forensic ecological examinations.

2. Perform the necessary calculations, solve typical expert tasks, interpret analytical data and finished tabular material.

3. To be guided in the nomenclature of forensic examinations, incl. and the class of forensic biological examinations.

4. Make an expert opinion.

5. Use regulatory documents in their activities.

***To have following skills:***

1. Skills of working with regulatory documents.

2. Basic field and laboratory methods for studying objects of biological origin.

3. Practical skills of description, assessment and forensic examination of objects of biological origin.

**6. The content of the discipline**

Section 1. Judicial Expertology

Topic 1. Subject, object, tasks, structure and methods of forensic examination. The concept and essence of special knowledge, the form of their use, according to the rules of the Code of Criminal Procedure, AIC, Code of Civil Procedure of the Russian Federation.

Topic 2. Judicial expert and forensic activity. The procedural status of a forensic expert and his competence. The status and competence of a specialist.

Topic 3. Classification of forensic examinations: classes, childbirth and species. The concept of forensic biological examination.

Section 2. Forensic ecological examination

Theme 4. The subject of forensic biological examination and classification of objects of expert research.

Topic 5. The use of special knowledge in the field of biology, ecology and related sciences in pre-trial and judicial proceedings.

Theme 6. Modern methods of forensic biological expertise. Methodological and methodological features of forensic biological research.

Theme 7. Research methods of chemical, physical and other properties of objects of biological origin.

Theme 8. Review of the practice of application of forensic biological examinations (botanical, dendrological, zoological, microbiological, etc.) in the criminal, administrative, civil and arbitration proceedings

Topic 9. Purpose and production of forensic examination. The structure of expert research. Expert opinion. The conclusion of a specialist.

Theme 10. The practice of production of forensic biological examinations.

Theme 11. The practice of forensic-agricultural expertise.

Theme 12. The practice of the production of forensic ecological (environmental) expertise.

**7. Basic educational technology**

Teaching a discipline provides the following forms of organization of the educational process: lectures, seminars, independent work of a student, the implementation of individual tasks, the preparation of an expert (specialist) training conclusion, and consultations.

8. Forms of control

The discipline program provides for the following types of control: monitoring progress in the form of an oral questioning (or examination test), protection of essays with presentations, interviews on the results of homework assignments, preparation of an individual educational expert opinion, intermediate certification – credit.