

PERFORMANCE OF INDEPENDENT WORK OF STUDENTS IN THE DEPARTMENT OF MICROBIOLOGY, VIROLOGY AND IMMUNOLOGY

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Annotation: The work is devoted to the organization of independent work of students (IWS) at the departments of universities, in the example on the subject of microbiology, virology and immunology. The authors disclose the tasks, forms, types and modern tools of the CDS. Particular attention is paid to mobile - distance learning on the platform mt.sammu.uz.

Keywords: independent work, microbiology, virology and immunology, modern mobile - distance learning, mt.sammu.uz.

Аннотация: Работа посвящена вопросам организации самостоятельной работы студентов (СРС) на кафедрах Вузов, в примере по предмету микробиологии, вирусологии и иммунологии. Авторы раскрывают задачи, формы, виды и современные инструменты проведения СРС. Особое внимание обращается на мобильно - дистанционное обучение на платформе mt.sammu.uz.

Ключевые слова: самостоятельная работа, микробиология, вирусология и иммунология, современное мобильно-дистанционное обучение, mt.sammu.uz.

Аннотация: Мақолада ОЎЮ кафедраларида талабалар мустақил иши (ТМИ) ларини ташкил этишни микробиология, вирусология ва иммунология фани мисолида келтирилган. Муаллифлар ТМИнинг вазифалари, шакли, турлари ва уларни ўтказишда замонавий воситаларга тўхталган. Асосий эътиборни мобил масофавий ўқитишга, хусусан mt.sammu.uz. платформаси ва унда яратилган материаллар мажмуага қаратган.

Калит сўзлар: мустақил иш, микробиология, вирусология ва иммунология, замонавий мобиль - дистанцион ўқитиш, mt.sammu.uz.

Almost 80-85% of those applying to the practice of a general practitioner are patients suffering from various infectious diseases. Among such diseases, acute diseases of the respiratory tract, acute diseases of the gastrointestinal tract, purulent infections are increasing more and more [2]. Therefore, during the practical training of microbiology, virology and immunology for students of the 2nd year medical, pediatrics and dentistry faculties, the results of the analysis (bacteriological, immunological and antibiotic sensitivity results) conducted in the bacteriological laboratory of the 1st clinic of SamSMU are being conducted. Students look at these results to make a complete diagnosis.

Under the leadership of the staff of the department of microbiology, virology and immunology, students study bacteriological, virological, immunological,

mycological and parasitological examinations, the theoretical basis of allergic and immune pathological conditions, their diagnosis and treatment principles

In the department, classes are conducted based on the working program of microbiology, virology and immunology developed in accordance with the new rating system and - approved by the Scientific Council of Samarkand State Medical University - the credit-module system of the Samarkand State Medical University.

In drawing up the regulation on independent student work of the department, the concept of the development of the higher education system of the Republic of Uzbekistan until 2030, chapter 3 "Strategic goals and priorities of the development of the higher education system" entitled "Expanding the scope of higher education, improving the quality of training of highly educated specialists" § 1 entitled "Increasing the share of independent study hours, students' independent education, critical and creative thinking, systematic analysis, formation of entrepreneurial skills, introduction of methods and technologies aimed at strengthening competencies in the educational process, directing the educational process to the formation of practical skills, in this regard, it was developed on the basis of the "Instructions on the organization and control of students' independent work" at SamSMU, which was developed on the basis of the clauses "wide introduction of advanced pedagogical technologies, educational programs and educational materials based on international educational standards" into the educational process.

The main goal of the student's independent work is the formation of the knowledge and skills necessary for the student to independently perform certain educational tasks under the guidance and control of the teacher, and the tasks of the student's independent work are as follows:

- to acquire the skills of independent assimilation of new knowledge;
- identifying convenient methods and means of searching for the necessary information;
- effective use of information sources and addresses;
- work with traditional educational and scientific literature, regulatory documents;
- work with electronic educational literature and data bank;
- purposeful use of the Internet;
- determining the rational solution of the task;
- database analysis;
- preparation of work results for examination and processing on the basis of expert opinion;
- systematic and creative approach to tasks;
- justifying and defending the developed solution, project or idea in a team of experts.

When choosing topics for student independent work, the following are taken into account:

1. Independent processing of topics not covered in lectures and practical sessions.
2. Better mastering, deepening and strengthening of the topics presented in the lectures and practical training, determining the basic and complex tasks.
3. Acquaintance with a relatively simple source and then expansion by the teacher during a lecture or practical session.

The end result of such activity is that students:

- formation of medical professional abilities and skills;
- drawing up a plan of methods and principles of treatment for correct diagnosis of infectious diseases and immune diseases;
- formation of knowledge of disease prevention and complications;
- possibilities of laboratory diagnosis, comparison of modern and traditional diagnosis, ability to choose effective methods and a positive approach, understanding the basics of treatment and prevention.

TMI in the field of microbiology, virology and immunology is carried out through the Internet portal of SamSMU e-learning system (EO'T) and with the support of teachers on duty at the department.

Each student can access mt.sammu.uz through a personal login and password. through the Internet portal SamSMU EO'T database enters the page of the science of microbiology, virology and immunology, selects topics suitable for modules and works on methodological instructions, lecture texts, slides, resources for practical training, synopsis, test, picture test, situational problem and other information related to these topics. He/she submits control questions to assess his/her knowledge and works on his/her own results and shortcomings.

This article discusses microbiology, virology, and immunology.

In this case, the following obligations are assigned to students:

1. Samaritan job selection, (independent student of went mausoleum)
2. Independent work gives students the opportunity and desire to stay north of the paddock.
3. Marked has long been an independent finish farm.
4. It takes eighteen minutes.
5. The independent maximum interest in doing work and the outstanding increase activity.
6. Literary studies with constant in without working, a mature specialist, deeply felt relieved.

The results of the students' independent work test - the results of the answers to the control questions, how long they worked on which topic and other actions are

automatically registered through the server computers. Science teacher mt.sammu.uz. through the internet portal [3], it monitors which students are active independently, which students are not on this list, 24 hours a day from any distance, and analyzes their grades and informs the student of the results in writing via chat.

After studying the control of students' independent work based on the system of each subject (module), it is evaluated according to the traditional 4-point scale (5 - "Excellent", 4 - "Good", 3 - "Satisfactory" 2 - "Unsatisfactory") within the current control assessment.

As a criterion for evaluating students' independent work, students' acquisition of theoretical knowledge, practical skills and their ability to apply them in practice were taken as a basis.

Each completed independent work is necessarily discussed and evaluated with the student. This grade is combined with the grade of work done during the lesson (theoretical discussion of the practical work, working under a microscope, technique of obtaining smear and its preparation, test control, independent work) and the grade with an average arithmetical value is recorded in the journal. At the end of each lesson, the teacher announces the student's final grade. At the end of the module sessions, the student grade is ensured to correspond to the number of sessions.

Conclusion. Thus, mt.sammu.uz was created by the team of Samarkand State Medical University as a form of distance education, which is one of the modern advanced information technologies. organization of students' independent work using the Internet portal is a guarantee of constant communication between the teacher and the student and effective education. This ensures that our students become modern, competitive professionals.

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