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**IMPLEMENTATION OF A COMPETENT APPROACH TO THE  
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PHYSICAL METHODS OF ANALYSIS"**

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**Annotation.** The article considers the specifics of the organization of the educational process with the extramural students of the Faculty of Pharmacy during the study of the discipline "Biophysics and Physical Methods of Analysis" in the context of the implementation of a competent approach to learning.

**Key words:** the extramural students, competent approach to learning.

**Introduction.** In the conditions of reforming the healthcare system of Ukraine, the process of transformation of medical education is necessary and urgent. Article 49 of the Ukrainian Act on Higher Education defines external form of studies as one of the possible forms of education in higher education institutions. According to the analytical report, which was presented at the presentation "Strategy for the development of medical education in Ukraine" by the Ministry of Health 13.11.2018, «14976 students entered institutions of higher medical education in 2017, as well as the medical faculties of five classical universities for Bachelor's and Master's degree programs 22 "Health Care". 20% of them are students on external form of studies (mainly in the field of "pharmacy, industrial pharmacy")» [1]. A specific of external

education is the combination of self-study and face-to-face training of students. The advantages of extramural studies include the possibility of combining it with other activities, such as on-the-job training or while on parental leave, etc. At the same time, a number of requirements are added to a person who wants to study by external studies: the ability to work independently, to plan their time to perform the required amount of work for a certain period of time, the ability to use Internet resources, the ability to find and apply certain educational and scientific data to perform the tasks, as well as sufficiently developed self-control, etc. It takes a lot from an external student, but the result of education largely depends not only on the ability and willingness of the student to learn and on its organization, but also on the quality of teaching.

The discipline "Biophysics and Physical Methods of Analysis" is studied by 1st year students of the Faculty of Pharmacy on external studies at the Department of Medical Physics, Biophysics and Higher Mathematics and is part of the block of general scientific training in the specialty, i.e. fundamental discipline. Successful mastery of knowledge, skills, communications, autonomies and responsibility for each competence defined in the discipline's Educational Program should ensure that students acquire a number of integral, general, special competences, which are connected with each other and are obligatory according to the standard of higher education of Ukraine of training of the master of knowledge 22 "Health care" of specialty 226 "Pharmacy, industrial pharmacy". Taking into account the form of study, independent work, which accounts for almost 80% of the total number of hours provided for the study of the discipline, is the main way for students to master the educational material. Therefore, the formation of necessary competencies can be achieved primarily through clearly planned independent work of students, as well as organized cooperation between extramural students and teachers during the founding and examination session. «Domestic and foreign experience shows that the organization of independent work of students should be aimed at a more complete implementation of the objectives of education, the formation of professionally important qualities of the personality of a specialist, a sustainable positive motivation

for self-education and self-improvement, comprehensive innovative development of the education system» [2]. Based on the above mentioned, the work program of the discipline clearly defines the subject, goal and objectives of the academic discipline "Biophysics and methods of analysis" and the practical skills that students should acquire at our department. Unfortunately, first-year students underestimate the role of basic knowledge in biology, biophysics, biochemistry in professional preparation [3, 4], but "they (knowledge) help to understand important aspects of the phenomena and processes that form the basis of professional activity. Mastery of disciplines of a physical and mathematical cycle has exclusive value for formation of cognitive schemes as generalized stereotypical forms of storage of the experience got in a certain subject area. Physical and mathematical disciplines form a type of thinking that allows students to quickly master the essence of the problem and make the best decision in any field of knowledge» [5].

**Purpose of article.** To show the specifics of the organization of the educational process with the extramural students of the Faculty of Pharmacy during the study of the discipline "Biological Physics and Physical Methods of Analysis" in the context of the implementation of a competent approach to learning.

**Main part.** The independent work of extramural students is made during the inter-sessional and examination periods. Each of these periods of education builds up certain competencies defined in the curriculum for the discipline. To create a sustainable positive motivation for self-education, the founding lecture is very important, which gives students an understanding of the subject of the discipline, its role in the system of professional education. Besides introduction to the discipline, an equally important goal of the first lecture is to explain the principles of the organization of learning work, most of which students will perform independently. Students should understand how their studies in the department will take place, what requirements must be met during the intersessional period in order to be eligible for examination. It is necessary for students to get to know the site of the department, as it is on it are placed educational, methodical materials that are necessary for successful independent work. In order to increase the efficiency of students' work, the

teachers of the department have prepared a number of educational and methodical manuals, which are aimed at helping the future specialists to master the discipline independently. After the founding lecture, extramural students should also receive the tasks of a control paper, which they will do until the next examination period.

Completion of control work during the intersessional period contributes to the development of a number of professional competencies. In particular, nowadays one of the most important competencies is the skill of using information and communication technologies, which implies deep knowledge and skills to use the possibilities of Internet resources, which have a very large information capacity. The easiest way to use the Internet is to find additional materials, interesting facts etc. To help students, teachers of our department created Internet resources, which contain various types of student activities: from the development of theoretical materials on the topic to the organization of knowledge refining by using tests, experimental tasks, calculation tasks.

One of the special (professional) competences is the ability to solve problems related to a discipline. Such tasks can be not only calculative, but also practical and experimental. To master this competence, a student should know the methods of problem solving, theoretical bases of their solution, should be able to use theoretical knowledge of the discipline.

The main task of performing the control work in the discipline is to acquire a basic level of knowledge. The next stage of education takes place during lectures and practical exercises. The educational and methodical materials created by the teachers of our department contribute to the increase of the efficiency of the education of external students. At practical classes we use the "Exercise manual", in the creation of which the authors have done a lot of work on the actualization of each topic of the discipline, separation of the most important issues to be considered in the classes, and also paid special attention to the development of tasks that will contribute to the most effective learning. The authors took into consideration that most of the material was studied by students themselves. The information is therefore presented in a clear, accessible form. The manual contains a significant number of illustrations, tables,

tasks of a problematic nature. Students' use of the manual's tasks will help them to successfully master the theoretical material, as well as to master the practical part of the learning process.

At lectures and practical classes on "Biophysics and Physical Methods of Analysis" teachers form one more important general competence "Ability to manifest, put and solve problems". For this purpose, the knowledge of the stages of the problem's research is actualized with the students. Students should be able to analyze data obtained from information sources, should be able to communicate with the teacher and students in the group during the discussion and solution of problems, finding solutions to them. Such work forms the ability to think independently, to form ideas and hypotheses. For formation of the given competence on classes on "Biological physics and physical methods of analysis" teachers of department use the problem approach to studying of the majority of themes of a course. In order to create a problematic situation, we use different techniques and means: presentation of information containing a contradiction; familiarization with different interpretations of the same phenomenon, fact etc. Starting a class on creating a problem situation, the teacher forms a motivation for students to learn, which is an effective factor in actively involving the individual in the process of learning. It implies that a student searches for and receives new information when analyzing, comparing, concretizing, synthesizing, summarizing factual material. The process will be successful when students have all the common competences, namely, the ability to think abstractly, analyze and synthesize, the ability to apply knowledge in practical situations, and the ability to plan and manage time etc.

**Conclusions.** Formation of the system of certain competences in the discipline is a rich and hard work of both teachers and students, which requires dedication, great will, high responsibility. This process is particularly difficult in extramural studies, given that most of the material is studied independently. The competencies that are formed in the study of "Biophysics and physical methods of analysis" form the basis of general scientific knowledge and skills. They are the basis for inter-subject competencies required for further study of certain disciplines, in particular human



physiology. "Biophysics and Physical methods of analysis" is studied in the first year of study, so it is very important for students to develop integrated, general, special competences in the discipline, that will help them in their senior courses of professional competence, in which the knowledge as well as the skills acquired in biological physics are part of the relevant professional competence. In order to increase efficiency, the following is necessary: 1. Development of distance work, as some tasks require communication with the instructor in order to be able to get help if necessary, to discuss the results of a particular task; 2. Improvement of teaching materials to improve the independent work of students.

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