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EXPERIENCE OF THE ONLINE DATABASE "SCIENCE ONLINE" USAGE IN MONITORING OF THE RESEARCH ACTIVITY OF THE UNIVERSITY

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Abstract. *The article describes the experience of the online database "Science Online" usage in monitoring of research activity of the research and educational staff of the University and the impact of this rating on the effectiveness of their scientific work. Rating evaluation is a type of quantitative and qualitative monitoring of the research activity carried out by teaching staff.*

Key words: *rating of research and educational staff activity, adapted information system, monitoring of scientific activity.*

Urgent renovation of theoretical views and practical actions in improving the mechanism of evaluation of the quality of research and educational staff in medical universities is determined by certain internal and external factors which have an influence on the quality of higher medical education.

The current state of higher medical education is characterized by an further realization of the principle of autonomy of higher medical institutions that meets the priorities of the new Law "On the higher education" approved by the Ministry of Education and Science of Ukraine on the 1st of July, 2014.

Along with the increased tendencies to decentralization in higher education state administering, the mechanisms, forms and structures of its regulation in the society are in progress. Under these conditions a necessity arises to develop new procedures of provision, control, and evaluation of education quality which would be favourable in solution of the key problems of higher medical education.

Monitoring of research and educational teaching staff activity is one of the most effective methods in system of evaluation of their professional activity quality. Its purpose is to accumulate objective information about the real quality of the

research and educational staff activity. Monitoring of quality for this cohort's training is a system of specially organized observations concerning the quality of the lecturers' activity and its influence on educational environment and as well quality the educational process as a whole.

It is obvious that currently the integration processes which concern the sphere of education arrange real conditions to elaborate comparative criteria and methodologies in evaluation of the medical education quality. In this aspect, problem of evaluation of the teaching staff activity becomes especially topical. The available world level system of evaluation of the teaching staff activity quality becomes an indispensable condition of national medical education in the world's and European education space [3].

Recent years are characterized by increased attention of the researchers to the problems of managing of professional education quality. The basics of theory and methodology of education quality are based on the works written by M. Budyanskiy, I. Zyazyun, V.I. Baidenko, I.A. Zymnyaya, N.A. Selesnyova. Theoretical and practical basics of managing the educational process at university level are revealed in the works of G.A. Bordovskiy, V.A. Kachalov, B.K. Kolomiyets, V.M. Sokolov, S.Yu. Trapitsin, etc. Qualimetric basics for managing the quality of education in the university (E.Yu. Vasilieva, L. Vatchenko, O. Velichko, V. Ivashchenko, etc.) are currently being elaborated.

At the same time the search of up-to-date mechanisms is being provided to evaluate research educational activity of the teaching staff including the university education quality assessment models.

Research and educational activity is a kind of creativity with feasible different options for assessment. It is obvious that the most objective is evaluation according to the final result but not the procedure of its attainment and efforts spent on it [1]. Rating evaluation allows to consider these peculiarities of professional activity of the university teaching staff.

Adapted to the fields and specialities, rating systems for evaluation of research and educational activity of university teaching staff function in the higher educational

establishments of Ukraine. In particular, Kharkiv National Medical University proposed and introduced such system which is the Online database "Science Online" (<http://nauka.knmu.edu.ua/sierep/index.php>, certificate of authority №45902 dated 03.10.2012).

This system is appointed to elaborate the results of every lecturer – member of research educational staff of the department, faculty, and university. The process of substantiation of the rating system model includes formation of hierarchical system of parameters, ranking the values of figures, determination of the parameters significance coefficients in grades and establishing measuring of the results of the lecturer's work.

The online database "Science Online" is a web-oriented system which is assigned to provide online analysis of the research work of the university units during the year.

This system includes the following parts:

- staff and logistical support of research activity, general information;
- list of research works being performed at the department (subdivision), contracts on cooperation;
- information about the obtained grants;
- partnership in pre-clinical trials of pharmaceuticals;
- concised information about the most important research achievements of the department (subdivision) for the reporting year;
- list of innovations which are proposed to be included to the Register of the field innovations this year;
- information about introduction of the results of research included in the previous issues of the field innovation registers (clinical, economic, social efficiency, examples of positive influence on the population health parameters and activity of public health centers);
- patent and licence activity of the departments (units), discoveries;
- information about training of the research staff;
- participation in congresses, conferences, exhibitions;
- publishing activity of the department (unit);

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- information about participation in international scientific technical co-operation;
 - students' science;
 - propositions concerning increase of efficiency of the research work in the university.

Each of these items has a list of charts. After the data entered, the rating calculation procedure is being completed automatically. On the grounds of the processed results of the activity and grade evaluation of the parameters levels at estimated period the marks for the parameters are given and the final rating is calculated.

Rating of the unit depends on the available several items in the tables or on their special margins, e.g., concerning the publication written in foreign languages, placing the publication in library depositary, etc. The results of calculation of the general rating of the university's unit and the data of each member of the staff (personal rating) of the named subdivision are presented.

There is a possibility to search data in all units of the University according to the key words or the numbers or titles of charts. Among its potential is generating the complete report about the research activity of the university's unit followed by printing.

Online database "Science Online" provides individual ranging of research and educational staff of the departments of various profiles, namely: clinical, social economic and humanities, natural sciences.

Currently, the system "Science Online" is unique. This system aims to realize online opportunity to observe research activity of the lecturers of the University, and this material is a basis for analysis.

The value of rating of research and educational staff is taken into account while planning the academic process of the department, considering while awarding bonus for the results of academic year, establishment of various extra and additional payments to salary and competitive election for the position at the following period. The system of rating evaluation for research and educational staff activity is permanently in progress. Taking into consideration the fact that new types of work

appear to be done, some model values of the parameters which should be achieved may be corrected to the following stimulation of creative activity of the staff.

It is necessary to mention that usage of the great storage of graphic images in this system is considered to be perspective to increase the data visualization.

Thus, the high rating of lecturer is an indicator of the education quality. Owing to the system of rating evaluation of research and educational staff the conditions have been making to provide contested action and good competition, increased motivation to work effectively as well as the given possibility to be competitive at labor market.

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Досвід використання інтерактивної бази "Наука онлайн" у моніторингу наукової діяльності вищого навчального закладу

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Резюме. У статті розглядається досвід використання інтерактивної бази "Наука онлайн" у моніторингу наукової діяльності викладачів та вплив рейтингового оцінювання діяльності науково-педагогічних працівників університету на ефективність їхньої наукової роботи. Рейтингове оцінювання є одним з видів кількісного та якісного моніторингу діяльності викладача.

Ключові слова: рейтингове оцінювання діяльності викладача, адаптована інформаційна система, моніторинг наукової діяльності.

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Опыт использования интерактивной базы "Наука онлайн" в мониторинге научной деятельности вуза

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В статье рассматривается опыт использования интерактивной базы "Наука онлайн" в мониторинге научной деятельности преподавателей и влияние рейтинговой оценки деятельности научно-педагогических работников университета на эффективность их научной работы. Рейтинговая оценка является одним из видов количественного и качественного мониторинга деятельности преподавателя.

Ключевые слова: рейтинговая оценка деятельности преподавателя, адаптируемая информационная система, мониторинг научной деятельности.

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