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Publicação Contínua

Professionally-oriented tasks in the formation of competencies in the field of students' research activities

Tarefas com orientação profissional na formação de competências no campo das atividades de pesquisa dos alunos

Tareas de orientación profesional en la formación de competencias en el campo de las actividades de investigación de los estudiantes

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Abstract: Due to the introduction and implementation of the requirements of the third-generation Federal State Educational Standards, the importance of students' involvement in research activities during their studies has increased. Currently, special importance in the higher education system is given to the issues related to the organization of such work with students. Having mastered the principal educational program, graduates should be ready to carry out professional activities in the field of applied research, as well as to solve various research tasks. To do this, the graduates must have a certain set of competencies, formed in various ways and methods in the course of professional training. One of the best ways to form competencies both in the field of future profession and research activities is professionally-oriented tasks. As a rule, such tasks are offered to students starting from the first year. Gradually, the level of complexity of the tasks increases, and to solve such tasks, senior-year students need knowledge across multiple disciplines. The article presents a list of academic disciplines, whose study using various forms can train and develop various competencies, including research ones. Universities regularly involve students in research work. However, at present, an appropriate pedagogically sound system of continuous involvement of students in this work is required.

Keywords: Research activities of students, Competencies, Professionally-oriented tasks, Tourism.

Resumo: Devido à introdução e implementação dos requisitos das Normas Educacionais Estaduais Federais de terceira geração, a importância do envolvimento dos alunos em atividades de pesquisa durante seus estudos aumentou. Atualmente, especial importância no sistema de ensino superior é dada às questões relacionadas à organização desse tipo de trabalho com os alunos. Tendo dominado o programa educacional principal, o graduado deve estar pronto para realizar atividades profissionais no campo da pesquisa aplicada, bem como para resolver várias tarefas de pesquisa. Para tanto, os graduados devem possuir um determinado conjunto de competências, formadas de diversas formas e métodos no decorrer da formação profissional. Uma das melhores maneiras de formar competências, tanto no campo da futura profissão quanto nas atividades de pesquisa, são as tarefas de orientação profissional. Via de regra, essas tarefas são oferecidas aos alunos a partir do primeiro ano. Gradualmente, o nível de complexidade das tarefas aumenta e, para resolvê-las, os alunos do último ano precisam de conhecimentos em várias disciplinas. O artigo apresenta uma lista de disciplinas acadêmicas, cujo estudo em várias formas pode treinar e desenvolver várias competências, incluindo a pesquisa uns. As universidades regularmente envolvem os



alunos em trabalhos de pesquisa. No entanto, atualmente, é necessário um sistema adequado pedagogicamente sólido de envolvimento contínuo dos alunos neste trabalho. **Palavras-chave:** Atividades de pesquisa de estudantes, Competências, Tarefas de orientação profissional, Turismo.

Resumen: Debido a la introducción e implementación de los requisitos de los Estándares Educativos del Estado Federal de tercera generación, ha aumentado la importancia de la participación de los estudiantes en las actividades de investigación durante sus estudios. Actualmente, se le da especial importancia en el sistema de educación superior a los temas relacionados con la organización de dicho trabajo con los estudiantes. Habiendo dominado el programa educativo principal, los graduados deben estar preparados para realizar actividades profesionales en el campo de la investigación aplicada, así como para resolver diversas tareas de investigación. Para ello, los egresados deben tener un determinado conjunto de competencias, formadas de diversas formas y métodos en el transcurso de la formación profesional. Una de las mejores formas de formar competencias tanto en el campo de la futura profesión como en las actividades de investigación son las tareas de orientación profesional. Como regla general, estas tareas se ofrecen a los estudiantes a partir del primer año. Gradualmente, el nivel de complejidad de las tareas aumenta, y para resolver dichas tareas, los estudiantes de último año necesitan conocimientos en múltiples disciplinas. El artículo presenta una lista de disciplinas académicas, cuyo estudio mediante diversas formas puede capacitar y desarrollar diversas competencias, incluida la investigación unos. Las universidades involucran regularmente a los estudiantes en trabajos de investigación. Sin embargo, en la actualidad, se requiere un sistema apropiado y pedagógicamente sólido de participación continua de los estudiantes en este trabajo.

Palabras clave: Actividades de investigación de los estudiantes, Competencias, Tareas de orientación professional, Turismo.

INTRODUCTION

Current trends in the development of society require universities to improve the educational process, apply innovative pedagogical technologies, increase the proportion of practice-oriented in-class learning of the disciplines of the major curriculum, expand the range of educational activities aimed at meeting the personal interests of students, as well as the development of competencies necessary for graduates.

According to the requirements of the Federal State Educational Standard of Higher Education (FSES HE), the bachelor program on Tourism (43.03.02) approved by the Order of the Ministry of Education and Science of the Russian Federation of June 8, 2017, No. 516, was amended accordingly in terms of structure and content of an exemplary basic educational program (EBEP). The new standard also led to changes in the conditions for implementing the program.

The implementation of the requirements of the FSES HE 3+ + required universities to solve many issues, including improving educational materials, modernizing the material and technical support, using innovative teaching technologies, and improving the professional level of the academic staff. All of the above has led to qualitative changes in the training of specialists in the field of tourism and hospitality.

The FSES HE 3++ defines the following professional areas in the bachelor degree course in Tourism major (43.03.02), in which graduates who have completed the bachelor's program can carry out professional activities:



- culture and art (in the field of excursion activities);
- services to the population (trade, maintenance, repair, providing personal services, hospitality services, public catering, etc.);
- applied research (Federal State Educational Standard of Higher Education, n.d.).

The main types of professional activity tasks of graduates are:

- organizational and managerial;
- design;
- technological;
- service;
- research (Federal State Educational Standard of Higher Education, n.d.).

It should be noted that at present, a specialist who has mastered both professional competencies and competencies in the field of research activities is becoming more popular and demanded.

Thus, the formation of readiness of graduates for research activities is one of the most important tasks when training contemporary specialists in the tourism and hospitality sector (Zimnyaya, 2010; Kireeva, 2015). Following the requirements of the FSES HE, as well as requirements of the industry, achieving maximum efficiency of training in the tourism university requires the application of practice-oriented technologies. The development of practice-oriented tasks and their implementation in the learning process allows developing the necessary set of competencies.

LITERATURE REVIEW

The issues of organizing students' research activity and its effectiveness were considered by various authors based on different approaches. The authors, such as V.I. Zagvyazinsky, I.A. Zimnyaya, T.I. Erofeev, I.I. Ilyasov, A.V. Korzhuyev, V.V. Kraevsky, A.M. Novikov, V.A. Popkov, V.A. Slastenin, M.G. Yaroshevsky, etc.consider research activities as a means of personal development. In their scientific works, D.B. Bogoyavlenskaya, N.E. Varlamovaand V.P. Kvasha consider the problems of forming research skills.

The use of tasks in professional training is considered in different aspects. The authors, such as S.L. Rubinstein, G.A. Ball, O.K. Tikhomirov, V.V. Petukhov, A.V. Beloshistaya, A.N. Leontiev, S.Ya. Batyshev, A.M. Novikov, A.A. Verbitsky, and others,in their works,consider tasks as a practical method of training, explore their elements, and define problem-based, task-based, and contextual approaches to training.

The works of E.A. Zubkova, N.V. Skorobogatova, O.A. Sorokina, N.M. Zhukova, P.F. Kubrushko, M.V. Shingareva, N.A. Prusova, N.S. Sebryaeva, Zh.V. Komarova, V.V., Likholetova, V.P. Grakhova, Yu.G. Kislyakova, U.F. Simakova, A.Yu. Arabchikova, L.N. Vasilyeva, L.N. Troitskaya, etc. consider the development, selection, and application



of professionally-oriented tasks depending on the fields of professional activity to implement the principle of professional orientation of training.

METHODOLOGY

When preparing this article, the following general scientific methods of theoretical research were used:

studying and analyzing the relevant pedagogical literature on the concerned topic;

systematizing theoretical data on the concept of "task";

synthesizing based on a combination of the teachers' attitudes in the field of training professionals for the tourism and hospitality sector, as well as the formation of research competencies in the course of professional training.

RESULTS AND DISCUSSION

The organization of research activities of students occupies a special place in the learning process. According to the requirements of the FSES HE 3++, both the bachelor and master must have the appropriate competencies to carry out research activities. It should be noted that within the bachelor's program, students acquire first of all basic research skills aimed at mastering the future profession, while master's program students acquire skills that are maximally focused on research and science, as well as pedagogical activities.

The research activities of students (RAS) include the academic and research work of students (ARWS) and the scientific research work of students (SRWS).

The main purpose of the ARWS is an educational result. This type of RAS aims at educating students and developing their research competencies. In turn, due to active participation in scientific research work, students receive new objective scientific knowledge.

The analysis of pedagogical literature has shown that RAS can have different types and implementation forms (Kireeva, 2015; Bordovskaya, 2011; Chuprova, 2012), as well as different degrees of attitude to the educational process (Figure 1).

Thus, the SRWS is inextricably linked with the educational process, as a rule, directly at the university departments and faculties, and is based on the principles indicated in table 1.



Table 1

Students' competencies forming principles in the field of research activities (Al'mukhanova, 2007; Prokhorov, 1969-1978; Ershova & Mullina, 2015; Zimnyaya, 2004; Chuprova, 2012; Shishov & Agapov, 2000).

No. Principles
 Characteristics of the principles
 Scientificity
 Compliance with the level of contemporary science and professional education content
 Professional orientation
 Variability
 Use of elective tasks that promote independent actions of students
 Self-actualization
 Independent acquisition of knowledge, skills, and abilities throughscientific research activities

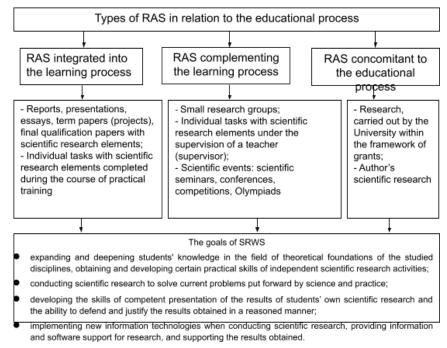


Figure 1

The types and goals of the research activities of students (RAS) (Kireeva, 2018; Kireeva, 2020; Ozhegov, 1990; Bordovskaya, 2011).

To form and develop competencies in the field of research activities of future specialists in the tourism and hospitality sector, many universities need to rethink not only the learning content but also approaches to the learning process. This concerns especially those subjects of the training specialties, which play a major role in developing professional and research competencies. As shown by the reviews of potential employers, as well as graduates, the study of theoretical material, passing tests, and solving cases is not enough to form research competencies in future specialists in the tourism and hospitality sector. To solve this problem, the process of teaching students in special academic disciplines should include also specially designed professionally-oriented tasks that would contribute to the formation and development of students' competencies in the field of research activities. Starting from the first year, students acquire the knowledge, skills, and abilities necessary to



solve professionally-oriented tasks. In the senior years, students can solve complex professionally-oriented tasks, as well as demonstrate acquired research competencies.

The analysis of pedagogical literature allowed systematizing the definitions of the term "task" (Table 2).

Table 2
Interpretation of the term "task" by various authors.

1	to. Interpretation of the term	Authoror source
1	Text, containing numerical components. The structure of this text is such that it allows distinguishing condition and a requirement (which is not always expressed in the form of an interrogative sentence)	A.V. Beloshastaya
2	A problematic situation with an explicit goal tobe achieved	O.K. Tikhomirov
3	Something that requires execution, permission An exercise that is performed by inference, calculation. A complex question, a problem that requires research and resolution.	S.I. Ozhegov
4	A problem situation which is reflected in consciousness or objectified in a signed model, containing data and conditions which are necessary and sufficient for its resolution by the available means of knowledge and experience	: The Great Psychological Encyclopedia
5	One of the methods of teaching and testing students' knowledge and practical skills used in all types of general and special educational institutions.	The Great Soviet Encyclopedia

A professional task is a specification of the goal of professional activity, reflecting its essence in the form of lined-up stages of overcoming by the teacher the contradictions between the problem situation and the need to find solutions, understanding, and choosing ways to solve complex mathematical problems (Musina, 2004).

A professionally-oriented task is a situation modeled by a teacher during a training session, whose description corresponds to the types of professional activity, and provides all the necessary information for its solution.

The main purpose of including such professionally-oriented tasks in the process of professional training of tourism and hospitality specialists is to expand theoretical knowledge, consolidate in practice the skills and abilities required to perform the relevant employment functions, in other words, to form the necessary competencies.

Teachers, when organizing research activities of students, should take into account the principle of succession from the first year to the fourth, from one discipline of the curriculum to another. If this principle is observed, then knowledge, skills, and abilities are formed gradually, and their complexity and volume within the framework of the student's scientific work also increase gradually. Practice-oriented tasks are a perfect fit in this case.

As an example, the curriculum in the training major of Tourism (43.03.02) at the FSBEI of HE "Russian State University of Tourism and Service" was analyzed. In the course of the analysis, academic disciplines were identified, whose study was harmonized most optimally with various forms of research activities of students by solving professionally-oriented tasks (Table 3).



Table 3

Implementation of various forms of RAS in the framework of training major of Tourism (43.03.02) (Shishov & Agapov, 2000).

Below is an example of a professionally-oriented task aimed at developing professional and research competencies.

Students are asked to develop a program for servicing tourists participating in the conference held from September 26 to 29 in Sochi. They are asked to offer two options for the service program: individual and group. To develop a tourist service program, students need to use travel guides to Sochi.

In this case, the presented task can be attributed to the practiceoriented production tasks. In the course of implementation, the student must develop a travel itinerary, prepare a list of tourist services, select appropriate service providers, calculate the cost, as well as spread the services provided over time. Thus, to solve this problem, the student needs to conduct a little research on the opportunities of the specified city for organizing tourist services.

Teachers begin to offer similar tasks with different conditions to students of tourist universities from the junior years, forming an interest in the future profession, introducing students to basic labor functions, as well as forming professional and research competencies.

CONCLUSION

According to the introduction and implementation of the competency-based approach in education, RAS is an important and integral part of the training of qualified specialists. The involvement of students in research activities contributes to the development of professional competencies, effectively contributes to the formation of readiness and ability to solve independently professional and scientific problems of various levels. By taking part in research activities, students master the scientific research methods and acquire initial research experience; future specialists become ready for creative implementation of the knowledge acquired at the university.

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Información adicional

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