

The Development of the Catalog of Elective Subjects as a Means of Professional Training of Students

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Abstract: In this work the technology of the development of content of the elective courses as a way of professional training of students is theoretically proved. The development of the catalog of elective subjects - the process of drafting and detailing of professional knowledge of students, their experience of practical and creative activities in order to ensure the integrity and appropriateness of elective subjects. The development of the content elective courses is the process of developing and detailing the components of educational content based on the principles, sources of criteria reflecting the nature of the training of students. The backbone component of the content of elective courses in vocational training is the experience of creative design activity of students. Experience the creative activity of students is a combination of knowledge and practical skills mastered, formed in the process of training students to solve creative problems and issues. The development technology of the directory elective courses is an activity for the development of the content of each of the following modules: explanatory, basic, control and diagnostics. The criteria for the effectiveness of technology development directory elective courses as a means of training students are: The ratio of students to the content of elective subjects; teaching competence of the student; creative competence.

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1. Introduction

Recent economic and social conditions of life presents the new requirements for the training of students, they need to be guided well in education, to think creatively, to have communication skills, be able to make pedagogical decisions and take responsibility for them.

Today, the country needs a new formation specialists capable of creative and professional solutions for today's practical level, significant tasks of training and education with professional competencies in the fields of education, research, management, teaching and learning activities that can creatively implement a productive career in education and training organizations.

An academic value and specific of the educational program of students find a reflection in the catalogue of elective disciplines, that gives students possibility of choice of own educational trajectory, receipt of the professional skills and competences, oriented to the sphere of activity of education taking into account the necessities of society, economy, labour-market and expectations of employers [1].

Elective subjects have great potential in the implementation of the professional education: they are mobile, create a situation of choice for students, encourage them to make decisions, analysis of

results, a deliberate choice of the future professional path.

Currently, gained sufficient theoretical and empirical material on specific aspects of content of the development of training students (Sakenov, D. Zh, Kushnir, Y.V.[2], Kenenbaeva, M.A, Tleulesova, A.Sh. [3], Mane, L. Miville, Changming Duan, Roberta L. Nutt, Charles A. Waehler, Lisa Suzuki, M. Carole Pistole, Patricia Arredondo, Michael Duffy, Brenda X. Mejia, Melissa Corpus[4], etc.), research the professional activity of students (Valeeva, I.A, Beregova, I.P.[5], Kondaurova, I.G., Igonina, T.B.[6], Sakenov, D.Zh, Kushnir, Y.V.[2], Monthei, C.E.[7], etc.), the design innovation in the content of the training of students (Dehler, G.E., Welsh, M.A. and Lewis, M.W. [8], Gideonse, H.D.[9], Schroedel, J.G., Watson, D. and Ashmore, D.H.[10], Aiken, J., Prue, A. J. and Hasazi, S.B.[11], etc., that creates a scientific base for the development of the content of elective courses as a way of the professional training of students. However, as the analysis of psycho-pedagogical and methodological literature, the development of the catalog of elective subjects remain outside the field of modern scientific research, thus not taken into account their specificity compared with the basic disciplines. Lack of modern theoretical elaboration of the scientific problem led to a low level of effectiveness of elective subjects in the

educational practices of modern higher education. Thus, the contradiction arises between uncertainty pedagogical foundations of the development of its content elective courses based on the specifics of the training of students and the need to implement the catalog of elective subjects in the practice of training students.

This contradiction allows us to formulate the research problem. What are the pedagogical basis for the development of its content elective courses as a means of training students? The need to address this problem, the aim of study: theoretical basis and development of technology for the development of its content elective courses as a means of training students.

2. Methods.

For the solution of the set objectives and verification of initial assumptions the following research methods were used: theoretical - analysis of the studied problem in scientific literature, empirical - observation, conversations, questioning, discussions, interviewing, analysis of the best pedagogical practices, analysis of creative works of students, studying of high school documentation (state standards of education, curricula, standard programs, educational-methodical complexes of pedagogical disciplines) experiments, modeling.

3 Main Part: The results and discussions. A set of ideas and provisions which represent themselves as methodological bases of the solution of the research problem is the first and its main characteristic.

- Leading component of designing the content of elective courses in the specialized training is the experience of creative design activity of students.
- We can formulate the definition of «The development of the catalogue of elective subjects». This category refers us as the design and detailing of the professional knowledge of the students, their experience of practical and creative activities in order to ensure the integrity and appropriateness of elective subjects. Integrity will be determined through correspondence and relationship goals, content and results of the development of elective subjects.
- In the context of our research technology development directory elective courses is an activity for the development of the content of each of the following modules: explanatory, basic, control and diagnostics.

Table 1. The technology of the development of the catalogue of elective courses

The module name	The content of the module
Explanatory module	Developing an explanatory note elective subjects; The formulating of the goals and objectives of elective subjects as a means of training students
The main module	To prove the basic concept of elective subjects as a means of training students; To develop thematic planning; To develop forms of organization studies; To develop and pick up problems, creative tasks, texts.
The control module	To identify the forms and methods, performance benchmarks mastering the content of elective subjects
The diagnostic module	Diagnostics of the influence of the content of elective courses on academic and artistic achievements of students;

Based on the technology of developing a catalog of elective subjects teacher develops curriculum elective subjects.

The purpose of ascertaining phase of the study was to determine the quality of its content elective courses as a means of training students. In ascertaining the stage of the experimental work was attended by 175 students.

The diagnostic results lead to the following conclusions:

- Students have a low practical, professional orientation content of elective courses;
- Students expressed a desire to meet in advance with annotations proposed catalog of elective subjects;

The efficiency of the development technology of the catalogue of elective subjects and its effect on the achievement of the training of students tested criteria presented in the table number 2 . Model of efficiency technology development directory of elective subjects in the training of students.

Table 2. Model of efficiency technology development directory of elective subjects in the training of students

Indicator	Criteria	Data
Catalog of elective subjects	1. The ratio of students to the content of elective subjects	- Interest in the content of elective subjects; - Types of learning activities in which the student participated.
	2. Educational competence of the student	- The ability to analyze literature; - Ability to identify and solve the problem of training; - The ability to prove a point of view.
	3. Creative competence	- The ability to make several ways to solve a learning task; - The ability to plan and organize research.

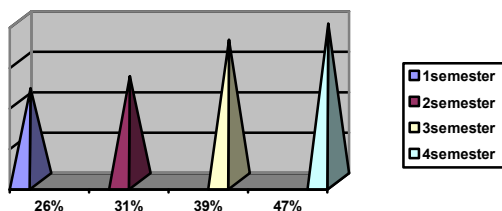


Figure 1. The dynamics of the relationship of students to the content of elective subjects

Analyzing the dynamics of the relationship of students to the content of elective courses, you can draw the following conclusion: in the initial stage of the experiment the number of students with severe cognitive interest was 26%, and to the end of the 4th semester, it increased to 47%. Consequently, the positive dynamics of this criterion by 21% to determine the effectiveness of the experimental work.

The criterion of formation of educational competencies of students are presented in Figure 2. The dynamics of formation of learning skills of students

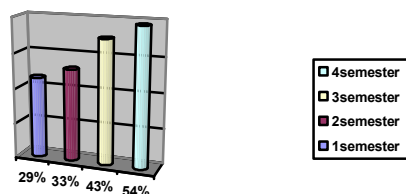


Figure 2. The dynamics of formation of learning skills of students

Analysis of the results of the formative phase of the experiment on specific criteria to determine the dynamics of formation of learning skills of students. At the initial stage of the experiment the number of students with learning competencies formed was 29%, and at the end of four semesters, it increased to 54%. Consequently, the positive dynamics of this criterion by 25% to determine the effectiveness of the experimental work

to develop a catalog of elective subjects in the training of students.

The criterion of formation of creative skills of students are presented in Figure 3. Dynamics of formation of creative skills of students.

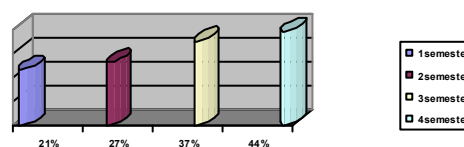


Figure 3. Dynamics of formation of creative skills of students

The results of the formative phase of the experiment show a positive trend level of formed experience of creative activity, which accounted for 23%.

Comparative analysis of ascertaining and formative phases of the experiment showed that during the experimental - experimental work, a positive trends in all three criteria of efficiency of technology development model catalog of elective subjects in the training of students.

Thus, in the formative stage of the pedagogical experiment in all parameters obtained positive trend, indicating that the efficiency of technology development directory of elective subjects in the training of students.

Develop catalog of elective subjects - the process of drafting and detailing of professional knowledge of students, their experience of practical and creative activities in order to ensure the integrity and appropriateness of elective subjects. Integrity will be determined through correspondence and relationship goals, content and results of the development of elective subjects.

Conclusion

1. The development of the catalog of elective subjects is the process of drafting and detailing of professional knowledge of students, their experience of practical and creative activities in order to ensure the integrity and appropriateness of elective subjects. Integrity will be determined through

correspondence and relationship goals, content and results of the development of elective subject.

Content Development elective courses - is the process of developing and detailing the components of educational content based on the principles, sources of criteria reflecting the nature of the training of students.

2. The backbone component of the content of elective courses in vocational training is the experience of creative design activity of students.

Experience the creative activity of students - a combination of knowledge and practical skills mastered, formed in the process of training students to solve creative problems and issues.

3. The technology of the development of directory elective courses is an activity for the development of the content of each of the following modules: explanatory, basic, control and diagnostics.

4. The criteria for the efficiency of the technology of development of directory elective courses as a means of training students are: The ratio of students to the content of elective subjects; Teaching competence of the student; creative competence.

Summing up the research, it is appropriate to note that the present paper does not cover all aspects of technology development directory elective courses as a means of the professional training of students, allowing chart the way forward as the investigation phase of the process of extracurricular training of students is the source of the formation of the content of elective courses.

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