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TECHNOLOGIES FOR DEVELOPMENT OF CREATIVE COMPETENCE OF FUTURE TEACHERS

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Annotation
This article talks about innovative forms of teaching, tools for creativity development, modern creative methods proposed for use in lectures and practical training in the development of creative competence of future teachers.

Keywords: creativity, pedagogy, education, technology, upbringing, competence, lecture, seminar, research, innovation, personal development, ability, teacher, student, acmeology.

Introduction

In the development strategy of New Uzbekistan for 2022-2026, conditions for identifying, supporting and developing individual positive characteristics of pupils and students, for their high-level education and formation and development of their creative potential. special importance is given to the issue of creating conditions[1].

Reforms in the world education system and changes in values require an innovative approach to pedagogical processes and the active introduction of technologies. The effectiveness of innovations applied to the educational process directly depends on the creative competence of the teacher and his level of development. Sarbonne Declaration, Education For All (EFA), Millennium Development Goals (MDGs), World Education Forum and Lisbon Conventions are a competent approach is of great importance in determining the innovative directions of training qualified creative specialists.

In modern conditions, research on improving the methodological and scientific-methodical foundations of developing the creativity of future teachers, developing systematic models of integrative professional education and objectively evaluating the results is carried out in the world's leading scientific centers and higher educational institutions, including AICHI University of Education (Japan), National Institute of Technical Teachers Training And Research (India), Shaanxi Normal University (China), Princeton University (USA), Belfield Pedagogical University (Germany), National Advice on pedagogical technology (England), Academy of Education (Russia), scientific research is being conducted at the Tashkent State Pedagogical University (Uzbekistan) [2.

LITERATURE ANALYSIS AND METHODS

Recently, one of the important directions of the modern competence approach is the development of creative competence, and the formation of modern technologies based on its theoretical and methodological foundations is gaining momentum. When speaking about the methods of development of creative competence in general, it shows that scientific and methodological instructions about the manifestation of creative competence in certain situations and processes and its popularization, i.e. adaptation to the environment, are not sufficiently developed.

For the first time, the concept of "creativity" was used in 1922 by D. Simpson, who defined it as a person's ability to abandon standard ways of thinking. The concept of creativity is similar to the meaning of the concept of "creative ability", and creativity is related to making, building, generating new things, creative activities that deviate from the norms of traditional thinking systems [3].

In a broad sense, creativity is the ability to work effectively under conditions of uncertainty aimed at achieving results that have objective or subjective novelty. Creativity is always manifested in situations where there are no clear algorithms of activity, in situations where the ways to solve the problems faced by a person are unknown, in unpredictable changing conditions.

In Russia, such scientists as A.M. Matyushkin, A.V.Petrovsky, M.G.Yaroshevsky, and V.N.Druzhinin worked on the study of creativity, and in Uzbekistan, we can mention B.R. Kadirov, E.Ghoziyev.

The need to develop creative competence in future teachers is determined by:

First of all, socio-economic development requires a fundamental renewal of the educational system, methodology and technology of the educational process. In such conditions, the activity of the teacher consists in creating pedagogical innovations, mastering best practices and mastering the skills of using them. This creates the need to develop creative competence by itself.

Secondly, the humanization of educational content requires the search for new organizational forms and technologies of teaching, i.e. innovation in education. One of the important conditions for introducing innovations into the educational process is characterized by the innovative readiness and creativity of the teacher.

Thirdly, to develop active inclinations in future teachers to master pedagogical innovation and put it into practice [4].

The personal development of young people in higher education institutions is characterized by such situations as their creative thinking, the formation of independence, active skills, the growth of their worldview, the formation of the need for self-control and education.

In the development of creative competence of future teachers:

- forms, methods and means of organizing independent education;
- a system of problem-based assignments aimed at developing students' creative competence during course work and graduation qualification work;
- innovative educational technologies;

- modern didactic technologies of teaching (SMART technology, CASE study) and tools ("IQ" tests, system of problematic video tasks, creative exercises with problems and conflicts);
- it is necessary to use the methods of performing creative tasks (option selection, modeling, synectics, algorithm for solving inventive problems).

RESULTS AND DISCUSSION

Modernization of higher education institutions and the educational process in them, improvement of the quality monitoring of the system of training of pedagogues, equipping future teachers with modern professional knowledge, qualifications and skills, formation of acmeological motivation for professional activity in them. it is considered one of the important tasks in the process of developing the creative competence of specialists [5].

The development of creative competence in students requires ensuring that the educational environment, teaching conditions and methods in educational institutions acquire an interactive character. At the same time, only if a free educational environment and conditions are created, the student's self-confidence will increase, the desire to act independently, and cognitive activity will be formed. This is an important factor in the development of creative competence in a person.

Development of creative competence in future teachers:

- first of all, it helps them to adapt to professional activities faster.
- Secondly, it provides the ability to find solutions to professional problems in non-standard professional situations, create and produce ideas, design and model them in professional activities.
- Thirdly, it provides an opportunity to easily adapt to the rapidly developing environment, overcomes stereotypes, ensures the speed of professional activity not only in the presence of complete information, but also in conditions of its scarcity.

In the educational process of developing the creative competence of the future teacher, we have chosen the following forms of teaching: lectures, seminars, laboratory, practical training.

Among the main forms of student educational activity in the process of developing the creative competence of future teachers - individual, group, combined, independent work of students outside the classroom and outside the classroom.

Support of creative competence: methodical production (work programs of psychological-pedagogical cycle subjects, scientific-methodical aids, methodical view, workbooks, "Creative self-development diary of a future teacher ") and educational activities (vocational training, physical training, technical training programs) were used.

We have determined the following as the basis of the technology of step-by-step development of creative competence of future teachers:

• educational technologies aimed at developing the creative qualities of a person: integrative technologies, social education technologies, technologies for educating the subjective social activity of the student;

• pedagogical technologies based on the humanitarian-personal orientation of the pedagogical process;
• technologies based on activation and intensification of students' activities (active methods of education): problem-based education (partial search method, educational research technology, research games), project-based educational technologies, interactive technologies.
• game technologies: educational games, role-playing and business games;
• individualized educational technologies: project method;
• integration technologies in education: integrative forms of education (seminar, lecture-seminar, lecture-discussion)[6].

Teaching technologies created and put into practice by professors teaching in higher education institutions, determining the creative competence of the future teacher, are a component of the educational system, and will increase professional activity in the future. helps in the gradual formation of theoretical, practical and motivational preparation for implementation at the level.

We used the following methods in lectures and practical sessions to develop students' creativity during the educational process. These are:

● Mind Mapping- Mind map;
● Eureka! - I found it!;
● Freewriting-Free writing;
● Mindstorming;

Mind Mapping

This method, developed by Tony Busen, is often translated into Uzbek as mind mapping, intelligence mapping, or mental mapping. This method is interesting, first of all, because it allows you to structure the thought process and encourage step-by-step thinking. Mind Mapping is almost universal and can be used in various situations: clarifying the issue, collecting information, making decisions. Using this method gives good results at the stage where new ideas need to be created.

The basis of the method is the process of bright thinking - the main problem is taken and from it, like the trunk of a tree, various ideas related to it branch out. A mental map should be as figurative, clear and colorful as possible, it should be filled with colorful pictures - creating a map is a creative process in itself. To create a mental map, it is recommended to use large-format sheets (at least A4), colored felt-tip pens, pencils or markers.

The starting point is in the middle of the page, where you can display the current task in the form of a square or a circle (whichever you prefer). Then branches are drawn from it in the form of thick lines, which show the main ideas related to the task. For ease of use, it's best to write all names in block letters. The importance of ideas is determined using the thickness of the lines. You can highlight the connections between different branches using closed contour lines and arrows[7].

Eureka! - I found it!

The methods described help generate new ideas, but sometimes the solutions don't seem right enough. One can foresee that there is another - better - solution somewhere. If we go back to the stages of the creative process described above, the incubation stage occurs when, after trying to solve a problem, we need to divert from the search for ideas and move on to something else. By shifting our mind to another topic, we do not stop working on solving the problem, the process continues. According to experts, it is at this moment that an intuitive understanding of the essence of the task and a long-awaited understanding appear. Examples from history confirm this. The most famous of them is Newton's discovery when an apple fell on his head.

Freewriting-Free writing

"Freewriting" is a creative method developed by Mark Levy. It requires you to write as quickly as possible and as much as possible about whatever is on your mind at the moment, regardless of the standard rules of grammar and spelling. Marc Levy introduced techniques that lead to innovative ideas and unconventional solutions[8].

This creative method is absolutely universal and is suitable for solving any creative tasks in various fields of activity, from text writing, design, advertising, copywriting and business solutions.

The essence of this method is that it takes the information or the solution itself, which is necessary and processed (by the brain) in your brain to creatively solve your problems, and what is in your mind works in "parallel thinking". The best thing for the creator is that the result is not the result of any step-by-step instructions or template actions, but the work of his own mind and talent[9].

The technique of "Freewriting" is that you quickly and without hesitation write down everything that is going on in your mind in a certain state (or mood). In fact, it is like a collection of words and phrases. In addition, in one "Freewriting" session, words can appear from different tasks (problems), and the brain can move from one problem to another.

Despite its apparent simplicity, this method requires some creative discipline and adherence to some rules, but it gives great results.

Maindstorming

You can use this method not only as a technique for generating ideas, but also as an exercise to significantly increase your creativity and develop your thinking in general.

Mindstorming as a tool is similar to brainstorming, which involves the flow of creative ideas.

Rules of Mindstorming:

Take a piece of paper and write the problem, task, or goal you want to solve or achieve at the top of the page. It must be in the form of a question, the more specific the question, the better the results.

For example:

- You: How can I double my income in the next 12 months?
- How can I lose a certain amount of weight in 3 months?

Be clear about your goals and questions, and don't forget to set deadlines. When the question is written at the top of the page, start thinking about the answer. You start looking for solutions and ideas for a specific task or problem. And you need to write them down as soon as possible.

Your first answers will come easily to you. But you should keep going until you have at least 20 ideas or solutions. After the first 5 answers, the next 5 will be difficult, the next 10 will be even more difficult, but you must not give up until you have 20 answers.

The above methods are successful when criticism is avoided when there is an atmosphere of equality and comfort in the group. The use of innovative methods and active learning technologies given above in the development of students' creativity, interesting and meaningful organization of classes with the help of non-traditional forms, methods and tools gave the expected results[10].

CONCLUSION

To attract more students to the above methods or similar activities, especially those who are studying in pedagogic fields and intend to realize the responsible goals of educating and teaching the young generation in the future - creativity in them We believe that it will greatly help to improve their abilities.

Based on the above information, we recommend the following. In the process of forming creative thinking among students of higher education institutions, the following conditions guarantee the achievement of efficiency in the process in question:

- Pay special attention to the formation of creative thinking in students of higher education institutions;
- Development of the theoretical basis for the formation of creative thinking among students of higher education institutions;
- Determining measures for effective use of existing opportunities that serve to form creative thinking among students of higher education institutions;
- Basing the system of forms, methods and tools that help to form students' creative thinking;
- Ensuring interdisciplinarity in this process;
- Creation of conditions that allow practical application of theoretical and pedagogical knowledge acquired by students.

The main task of pedagogues is to provide theoretical knowledge about creativity and its specific qualities in future teachers, and to increase the creative competence of students based on them. In the positive solution of this task, the educational process, including the use of active educational technologies in the teaching of subjects, interesting and meaningful organization of classes with the help of non-traditional forms, methods and tools will give the expected results.

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