

USE OF SCIENTIFIC RESEARCH METHODS OF PEDAGOGICAL SCIENCE

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Annotation

This article talks about the science of pedagogy and its research methods and their types.

Keywords: Pedagogy, research methods, research, process, content, person.

Any science has its own research methods

Through these methods, it enriches and updates its content. In life and in the theory of knowledge of the objective world, there are issues of what to teach and how to teach, who should be educated, and they are interrelated. In order to enrich and renew its content, pedagogy studies existing pedagogical phenomena and processes with methods that correspond to its goals and tasks. In order to enrich and renew its content, pedagogy studies existing pedagogical phenomena and processes with methods that correspond to its goals and tasks. If the research methods of pedagogy are perfect, in accordance with the mind, and correctly chosen, the renewal and improvement of the educational content will be improved to such an extent, and the science of pedagogy will be enriched. Pedagogical scientific-research methods are methods of special examination and knowledge of the inner essence, communication and laws of the pedagogical process, which determine the principles, object and subjective factors of educating a person, providing him with deep, thorough scientific knowledge in certain directions. In modern conditions, the following methods are used in conducting research in the pedagogical direction:

1. Pedagogical observation method.
2. Interview method.
3. Questionnaire method.
4. Interview method.
5. Method of analysis of educational institution documents.
6. Test method.
7. Pedagogical analysis method.
8. The method of studying children's creativity.
9. Pedagogical experience method.
10. Mathematical-statistical method

Pedagogical Observation Method

In the process of its application, the state of the researched student is determined based on the study of the educational process of educational institutions, and the difference between the indicators obtained at the beginning and at the end of the experiment is divided. Pedagogical observation is complex and has its own characteristics. The expected result can be achieved if the observation is carried out on the basis of a clear goal, continuously, consistently and systematically. If the conducted pedagogical observation serves to improve the quality of education and the formation of the student's personality, the importance of this method will increase. It is important not to make mistakes in the organization of pedagogical observation. For this, the researcher is required to:

- 1) have a clear goal in the observation process;
- 2) systematic monitoring;
- 3) solving a specific task at each stage of monitoring;
- 4) carefully study the essence of each case;
- 5) not to rush to conclusions.

Interview Method

This method helps to enrich the information obtained in the process of pedagogical observation, to give a correct assessment of the current situation, to create pedagogical conditions that allow to find a solution to the problem, and to attract the possibilities of subjects of experimental work to the solution of the problem. Interviews are conducted in individual, group and public form as appropriate. It is important to achieve the full manifestation of the respondents' capabilities during the interview process. Questionnaire method (French - check). Using this method, evidence collected during pedagogical observation and conversation is enriched. The questionnaire method is also based on the organization of communication with respondents based on structured questions. Answers to questionnaire questions, in most cases, are obtained in writing. Based on the nature of the process being studied, the questions of the questionnaire are as follows:

- 1) open-ended questions (questions that allow respondents to give free, detailed answers);
- 2) closed type questions (respondents answer questions by choosing the answer options "yes", "no", "partially" or "positive", "satisfactory", "negative", etc.) provides a reaction to the phenomenon that illuminates one or another aspect. The interview is conducted on the basis of referring a series of questions to the attention of the respondent. The reaction of the researcher to the questions received during the interview increases its effectiveness.

Method of analysis of educational institution documents

In order to verify the pedagogical phenomenon and evidence, it is appropriate to check the information that illuminates the content of the activities of educational institutions. This method is used to study the state of implementation of the requirements of the Law "On Education" of the Republic of Uzbekistan and the "National Program of Personnel Training" in the practice of educational institutions, the level of activity in this regard, the achieved achievements and the way forward. It is used in order to identify shortcomings, popularize best practices, and improve pedagogical experience of educational institutions. The documents explaining the nature of the activity of the educational institution are as follows: schedule of training sessions, curriculum, group (or class) Fridays, personal leaflets of students, orders, notebook with minutes of Pedagogical Council meeting, Pedagogical Council decisions, estimates and passports of the educational institution, plan of educational activities, reports on the organization of educational activities, notebooks containing the equipment of the educational institution (desks, chairs, soft furniture, etc.), etc. Test method. This method serves to determine the level of theoretical knowledge and practical skills and qualifications acquired by respondents in a specific field of science or activity (including professional activity). When using the test method, it is appropriate to pay attention to the knowledge, skills and qualifications that need to be determined. The advantage of this method is characterized by the possibility of analyzing respondents' answers according to specific criteria and saving time. However, the method is not without some shortcomings. For example, in most cases, answers are obtained in writing, and the respondent must choose one of the proposed answer options. Therefore, the respondent does not have the opportunity to express his opinion in detail.

Pedagogical Analysis Method

The purpose of using this method in the course of research is to determine the level of study of the selected problem in philosophical, psychological and pedagogical directions, and serves to justify the theoretical validity of the idea put forward by the researcher.

A method of studying children's creativity

This method is used in order to determine the level of students' abilities and skills in certain areas, as well as knowledge, skills and qualifications in certain fields of science. Creative works of students - diaries, essays, written works, abstracts, reports serve as an important tool in its application. The advantage of the method is that it creates a basis for seeing, evaluating and developing the individual potential of a particular student. In short, pedagogical research methods improve the accuracy of research tasks aimed at increasing the teacher's pedagogical activity, taking into account the age characteristics of students, the laws of children's psychology, and increase its level.

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