

CHARACTERISTICS OF STUDENTS' SCIENTIFIC AND CREATIVE ACTIVITIES

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Abstract:

In the article, scientific creativity is considered as the main process in students' activities, and theoretical and experimental information about the role of participation in scientific works and in the creative thinking of students was presented.

Keywords: Creativity, activity, thinking, initiative, independence, scientific activity, motive, goal.

Many higher educational institutions have become large educational and scientific centers. Graduates of higher educational institutions who have conducted scientific researches approach their professions creatively, they are highly prepared for work, and it takes little time to get used to work.

Participation in scientific work develops creative thinking, initiative, independence, selection of the necessary information from a lot of information. Important features of students' scientific activity are the followings:

- 1) Its goals are subordinated to educational goals,
- 2) the main motives are the motives of knowledge, 3)
- 3) scientific work is carried out under the guidance of teachers and scientific staff.

The purpose of students' participation in scientific work is to develop professional independence, the ability to solve practical tasks to creatively when being involved in working process.

At the same time, the student's academic activity is a person's self-expression to a certain extent, his desire to show his vital self. Motives for participation in scientific work appear already in the first year. The important factors that increase the motivation of scientific creativity are the influence of teachers and classmates on students of the first year. The goal of students' scientific research activity and the main reason for the formation of motives is the organization of their independent work. Scientific research works of students include the following works:

1. Course work.
2. Scientific abstracts.
3. Participation in the Olympics.
4. Participation in student conferences.
5. Diploma works.
6. Master theses.

It is possible to draw conclusions about the productivity of students' research work not only based on the creative level of their performances in seminars, but also based on the quality of course and diploma works and high rating scores. The deepening of knowledge on the methodology and methodology of conducting scientific research in the fields they are studying, familiarization with the history of scientific findings has a positive effect on the scientific research work of students¹.

From the first courses, the result of all studies is the defense of course and diploma theses. They are the first deep scientific work. Students participating in student scientific circles successfully perform these tasks.

The system of scientific research work of students in the higher school:

1. In our country, science is considered one of the components of personnel training - training highly qualified specialists and using them, developing advanced pedagogical and information technologies. In order for science to be integrated into the personnel training system, the following is necessary:

- to implement the mechanism of introducing the results of scientific research into the educational process by establishing experimental sites for the introduction of advanced information and pedagogical technology ensuring the connection of Science with educational practice by the formation and implementation of targeted innovative projects on the creation and development of advanced pedagogical technologies';
- to increase the quality of highly qualified personnel, to support the scientific creativity of young people in every way;
- establishment of special awards, prizes, scholarships for the scientific achievements of students and young scientists, organization of permanent exhibitions and expositions of young people's scientific and technical creativity.

2. The state educational standard of higher education specifies the following general qualification requirements for undergraduate and graduate education:

- to be able to work independently and organize labor activities on a scientific basis;
- formation of skills and qualifications for working with scientific and scientific technical information;
- acquisition of knowledge about the methodology of scientific creativity, general methods of knowledge, empirical and theoretical research methods, ways of substantiating and refuting the logic of laws and regulations².

The scope of scientific activity of the master's education involves changing the methodology of scientific research, students carrying out certain scientific research and scientific-pedagogical work in specialized scientific and educational institutions.

3. In order for Uzbekistan to reach the level of the developed countries in social production, cultural and educational spheres, it is necessary to organize work on a

¹ Ilyin E.P. **Psychology of creativity, creativity and giftedness.** Peter; St. Petersburg; 2009. 424 p

² Nishanova Z. Sadikov P. **High school psychology.** Tashkent, 2011. - 187 p.

scientific basis. Scientific organization of labor in all branches of the national economy, culture, spirituality, education, has become a vital necessity. Also, organizing the work of pedagogical staff on a scientific basis is the demand of the time. This means, first of all, the clear and thorough organization of all work, a scientific approach to the organization of educational work.

It is not enough for future professionals to acquire the subject blocks and professional knowledge in depth during their studies at a higher educational institution, to develop their talents and abilities, to involve students in scientific research work more widely, and to develop research skills and abilities. the need to acquire the methodology and methods of scientific creation, as mentioned above, is clearly defined in the normative documents of the Republic of Uzbekistan.

4. Students` research work of in a higher educational institution, in turn, requires them to acquire deep, solid knowledge. It is impossible to have a creative approach to practical work, to carry out educational research, and scientific research without independent and thorough knowledge.

5. In the higher school, students' scientific-research work is mainly carried out in pedagogical, educational and educational directions related to the profession. Its main tasks are:

- to develop students' interest in research activities, creative research, to develop the skills of a scientific approach to educational work;
- formation of educational research skills and qualifications in the process of learning a block of specialized and other subjects;
- the ability to study and analyze literature and other scientific sources, develop skills;
- to develop students' interest in research activities, creative research, to develop the skills of a scientific approach to educational work;
- formation of educational research skills and qualifications in the process of learning a block of specialized and other subjects;
- the ability to study and analyze literature and other scientific sources, develop skills;

6. Scientific and research works performed by students are organized in two directions: first, research works related to educational activities; the second, scientific research works related to the scientific directions of the departments³.

7. Requirements for research work related to educational activities include:

- study and critical analysis of scientific literature and sources, Internet information, works of domestic and foreign scientists, as well as literature on scientific research methodology and methods;
- collecting and preparing materials for experiments and experiments for practical training in educational subjects;
- research work related to preparation for laboratory training and its implementation;
- educational research related to the study of special courses and seminars;

³ Salakhutdinova M.I., Haydarova G.A. Psychological characteristics of the development of creative thinking in students.// Scientific bulletin. 2021, No. 2 (126) p. 134-140.

- preparation of abstracts, documents and lecture texts based on collected research materials;
- attendance of pedagogical, production and field practices, conducting individual and collective research on educational assignments during educational expeditions; studying the interests and individual characteristics of students; interpersonal relations in the team, pedagogical, psychological and sociological studies aimed at one goal; comparative study of youth beliefs and ideals, educational methods; archaeological, ethnographic studies; collecting herbariums, studying phenological and meteorological phenomena; such as researching the effectiveness of labor education methods in educational workshops;
- conducting coursework, papers, scientific lectures in the field of experimental research, etc.

8. Scientific research works of students related to the scientific-research areas of the departments include:

- students' work in scientific (science) circles. In the circles, students learn to choose a topic, compile a bibliography, learn scientific knowledge methods and research methods, prepare scientific documents and lectures based on literature, the Internet and other sources, make presentations about their research work, discuss scientific problems, debate participation;
- participation in scientific works performed by department teachers, graduate students, doctoral students, as well as in research works conducted by enterprises, scientific methodical institutions of the public education system; - participation in archaeological, ethnographic and other expeditions conducted by scientific research institutions;
- participation in scientific works performed by department teachers, graduate students, doctoral students, as well as in research works conducted by enterprises, scientific methodical institutions of the public education system;
- participation in archaeological, ethnographic and other expeditions conducted by scientific research institutions;
- preparation and defense of graduate theses, master's theses, preparation of scientific articles, pamphlets, publication, etc.

Thus, students' scientific research activity increases their mental activity, helps to master the educational material creatively, develops scientific thinking, and forms important professional qualities of the individual.

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