

SYSTEM OF SCIENTIFIC RESEARCH WORK OF STUDENTS IN HIGHER EDUCATION INSTITUTIONS

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Abstract: In this article, it is not enough for future professionals to acquire in-depth knowledge of science blocks and professional knowledge during their studies at a higher educational institution, to develop their talents and abilities, to involve the requirements in scientific research work more widely, to develop research skills and the need to acquire skills, to acquire the methodology and methods of scientific creativity, as mentioned above, is clearly defined in the normative documents of the Republic of Uzbekistan. Opinions are given that the scientific research work of students in a higher educational institution requires them to acquire deep and solid knowledge.

Keywords: Scientific research, future specialist, innovation, methodology of scientific creation, student, higher education, advanced pedagogical technologies.

Аннотация: В данной статье будущим специалистам недостаточно получить глубокие знания по научным блокам и профессиональным знаниям во время учебы в высшем учебном заведении, развить свои таланты и способности, шире задействовать потребности в научно-исследовательской работе, развить исследовательские навыки и потребность в приобретать навыки, овладевать методологией и приемами научного творчества, как уже говорилось выше, четко определено в нормативных документах Республики Узбекистан. Приводятся мнения о том, что научно-исследовательская работа студентов в высшем учебном заведении требует от них приобретения глубоких и прочных знаний.

Ключевые слова: научные исследования, будущий специалист, инновации, методология научного творчества, студент, высшее образование, передовые педагогические технологии.

One of the components of the national model of personnel training of the Republic of Uzbekistan is science, which prepares highly qualified specialists and uses them, develops advanced pedagogical and information technologies. In order for science to be integrated into the personnel training system, the following is necessary in the national program:

- ✓ to ensure the connection of science and educational practice through the formation and implementation of targeted innovative projects related to the creation and mastering of advanced pedagogical technologies;
- ✓ 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 technologies;
- ✓ increase the quality of training of highly qualified personnel, comprehensively support the scientific creativity of young people;
- ✓ establishment of special awards and prizes, scholarships for scientific achievements of students and young scientists, organization of permanent exhibitions and expositions of scientific and technical creativity of young people.

Among the general qualification requirements for bachelor's and master's education in the state educational standard of higher education, the following are defined:

- 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 regulations.

The block of scientific activity of master's education provides for mastering the methodology of scientific research, students to perform certain scientific research and scientific-pedagogical work in specialized scientific and educational institutions.

In order for Uzbekistan to reach the level of the developed countries of the world in social production, cultural and educational spheres, it is necessary to organize work on a scientific basis. Scientific organization of work in all branches of the national economy, culture, spirituality, and education has become a vital necessity. Also, organizing the work of pedagogical staff on a scientific basis is the demand of the times. This means, first of all, a clear and thorough organization of all work, a scientific approach to the organization of educational work. It is not enough for future specialists to acquire the science blocks and professional knowledge in depth during their studies at a higher educational institution, to develop their talents and abilities, to involve the requirements 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.

Scientific research work of students in a higher educational institution, in turn, requires them to acquire deep and solid knowledge. Independent, creative approach to practical work without thorough knowledge, educational research, scientific research work cannot be done. In higher education, scientific research works of students are mainly carried out in pedagogical 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 studying blocks of specialties and other subjects;
- ❖ the ability to study and analyze literature and other scientific sources, develop skills;
- ❖ acquisition of skills and qualifications to be able to see problems in the field of educational and educational work with students, as well as to perform scientific research in this field;
- ❖ to learn scientific research methods and learn to apply them in practice.

Scientific research works carried out by students are organized in two directions: first, research works related to educational activities, that is, educational research works; the second, scientific research works related to the scientific directions of the departments.

Research studies 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;
- preparation for laboratory training and research related to its implementation;
- educational research related to the study of special courses and seminars;
- preparation of abstracts, independent educational work and lecture texts based on collected research materials;
- conducting individual and collective research on educational tasks during pedagogical, production and field practices, during educational expeditions, studying the interests and individual characteristics of students, interpersonal

relations in the team, pedagogical, psychological and sociological research; youth beliefs and ideals, comparative study of educational methods, archeological-dialectological, ethnographic research, collecting herbariums, studying phenological and meteorological phenomena, researching the effectiveness of labor education methods in educational workshops such as course work, independent educational work, conducting scientific lectures in the field of experimental research.

The scientific research works of students related to the scientific research directions of the departments include:

- Students' work in scientific (science) circles. In circles, students learn to choose a topic, compile a bibliography, learn scientific knowledge methods and research methods, prepare scientific reports based on literature, the Internet and other sources, make presentations about their research work, participate in discussions of scientific problems, debates;
- participation in the scientific works performed by the teachers of the department, doctoral students, as well as in the 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;
- includes graduate theses, preparation and defense of master's theses, preparation of scientific articles, pamphlets, publication, etc.

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