

Scientific and Methodological Aspects of the Formation of Creative Thinking in Future Teachers on the Subject of «Technology»

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Abstract - The article focuses on the features of the subject «Technology» and its significance in the process of obtaining students a general education. The necessity of reforming the training methodology for future teachers in the subject «Technology» is noted, as well as effective approaches to the formation of their creative thinking are proposed. The emphasis on the development of creative thinking is made on the basis of the premise that this competency will allow future teachers to build a variable educational process in the subject «Technology», taking into account the individual abilities and professional intentions of students.

Keywords - Subject «Technology», Creative Thinking, Teacher Training, Labor Training, Creativity.

The contemporary changes in society require the continuous improvement of educational process. The task of educational institutions is the formation of personality, who is prepared to the life in the world of high technologies and new challenges. The education of the young generation is impossible without taking into account the innovative approaches in science, technology and industry. Therefore, that education may be recognized as qualitatively, resulting that's will be the graduate, who is able to make informed professional choices and with knowledge, skills which demands today's global and competitive world. High grades in the school certificate, that previously were measure of the success in education, today is becoming insufficient [1].

For the period 2017 - 2021 are scheduled 5 the most important areas of State development in the Republic of Uzbekistan. The strategy approved by the President of the Republic provides for the improvement of continuous

education status. Students receive general secondary education at the second stage of that r. And precisely at this stage they become acquainted with discipline as "Technology". Age and psychophysical specificities of students should be necessarily taken into the account in the optimization of the educational program on the subject and in the methodological process [2].

The improvement of approaches to teaching in different years has dealt also the subject «Technology», but that's importance for formation an all-around intellectually developed person, never was questioned. In the modern general education schools, the subject «Technology» is taught with the purpose of teaching students to intimate polytechnical knowledge, as well as to identify individual inclinations of them and contribute to their development during the work process. The special attention to the «Technology» subject is given as a means of strengthening

cross - curriculum relationships. On the shop classes students are taught skills to applying the knowledge, which obtained during the study of sciences. Dealing with projection and creativity, they discover the essences of economic processes in industry. In this regard, should be noted the critical importance of creative, imaginative approach of the teacher to the educational process. The subject «Technology» characterizes the following key principles:

1. Polytechnical character of the vocational education which consists the covering of wide variety of designer and technological processes. Educational «Technology» class should be aimed for the formation reasoned decision making skills, to design and create products for every student. The purpose for the subject is not only general vocational education, but also high specialized education to acquire specific professional skills, which is based on the individual characteristics of students.

2. The imaginative character of the working process, during which should be determined the individual abilities of the student and contribute to their development. Studying the subject of «Technology», pupils learn to think, to use creative approach for decision of targets and they are career-guidance trained for the work on electrotechnical, housekeeping and traditional - tinkering sphere.

3. The teaching of the subject according on the social and economic development of country [3]. The "Technology" subject is intended to familiarize students with the current professions, on the lessons are laid the foundations of the professional areas. It is an important condition for the successful transition from the general education to the professional and to subsequent employment.

In relation to these, the approaches of the educators for fulfilling their commitments should change based on: a) the newest standards require using of the new, flexible methods of education, oriented for formation of responsible person; b) every person is unique on his individual development and requires creative approach on projecting of educational trajectory from the teacher [4]. In preparatory process of the future teacher for creative activities, the project of educational impacting certainly should be a subject to modifications.

At present, there is the highest demand for teachers, who is actively using creative approach, which is able to respond quickly to all changes in society and technology. The teacher should be able to derive the capability of the student. What will help to improve the success of every student to a

qualitatively new level and bringing out their individual abilities. For teaching a pupil to creative thinking, the teacher should possess with such ability too. So, he can guide the thinking activity of the student and encourage his thinking activity. However, the traditional methods of teachers' preparation in institutions of higher education, which mainly aimed to reproduction, prepared knowledge, repeating templates, which are inefficient in terms of growth their creativity and innovative potential. The program and an approach to education future teachers should be seriously changed, so that they themselves should learn to think creative. Therefore, in the preparatory process, at the center should be placed not only presentation of educational material, but establishing the conditions in which on the student, on future teacher will develop the creativity [5]. In the educational system at the top should be subject - subject relationships. But it is impossible without seriously correction of existing pedagogical technologies.

Educational technologies which are aimed to the effective development of creativity, encourage the thinking processes, form the skill in analysing and synthesize information, to draw their own conclusions. Such pedagogical methodologies contribute to the development of desire to knowledge, as well as help to monitor educational process to amend the contemporary corrections. The development of future teachers' creative thinking, at present is possible in a wide range of pedagogical methods and technologies : DIOTH (decision of imaginative objectives theory), creative tasks, Mmodeling, Synaptic, Algorithmization, Brainstorm, Heuristics, KTD, Analogue and alternative methods, The development of imaginative - conceptual thinking, Guessing, Mind mapping (intelligence maps, mental maps). Among their integral parts the following should be mentioned:

- ✓ Identification and implementation of innovative abilities of the creative person;
- ✓ The combination of the structured activities, formed in accordance to the current trends of the community developments;
- ✓ To use own methodology, methods of analysing the educational materials, organizational forms of cognitive activities;
- ✓ Setting understandable, distinctly formed targets and striving to achieve them;
- ✓ Predictability of the result, which is planned to obtain.

Working with pupils, every teacher should be aimed for formation the comprehensively developed person. But without creative thinking skills and creative activity experience, it is difficult to achieve. To the preparation methodology of future «Technology» teachers, should be included the above mentioned practices, techniques and their modifications, what will contribute to the development of the future teachers creativity, to imaginative person formation, who is able to think creatively, ready to the dynamically changing conditions on the teaching profession.

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