



Creating an Environment and Implementing the Teachings of Abu Ali Ibn Sina in the Teaching of Biological Science to Students

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Abstract: *Proposals and recommendations on the pedagogical possibilities of creating an environment of using the scientific heritage of Abu Ali ibn Sina in biology classes and putting it into practice are given to students, as well as analyzes of the current state of the science.*

Keywords: *Scientific heritage, pedagogical possibility, science, textbook, content, essence, analysis.*

In Uzbekistan, school education is considered an important link of continuous education, and the need to further improve the higher education process has arisen, so the study and analysis of textbooks is of practical importance. The scientific debate about the different forms of worldview of students continues regularly. Our centuries-old national history shows that, as a man is a multifaceted, complex being, it is primarily an ancient need for him to evaluate and understand all forms of worldview in the spiritual world - according to the urgency of the tasks of forming a perfect person, especially, is important.

In recent years, the complex approach to education and training is on the rise, the issue of its inextricable connection with the formation of a well-rounded personality, that is, the effective use of the teachings of Abu Ali ibn Sina in the teaching of subjects in general secondary educational institutions, and specifies the improvement of the content of textbooks. In the teachings of the encyclopedist Abu Ali Ibn Sina, human education and its perfection occupy an important place. Interest in the pedagogical aspects of scientist's work developed further in the years of independence. As a result of the reforms carried out in the field of education in our country, there was an opportunity to get acquainted with the works of scholars and study them on a scientific basis.

Based on the pedagogical possibilities of using the teachings of Abu Ali ibn Sina in biology lessons, the process of developing the spiritual, moral, intellectual, and scientific outlook of students is complex according to its quality characteristics, composition, factors, conditions, and management.

It reflects the cultural, moral, spiritual, intellectual, psychological aspects of students during the teaching of biology. Also, upbringing, education, education and development based on the teachings of Abu Ali Ibn Sina, as well as during their future activities, are of special importance.

It is appropriate to use the scientific heritage of Abu Ali ibn Sina in the course of biology lessons of general secondary education students in the course of preserving values, traditions, history, our great spiritual and material, cultural heritage, but in the economic and social development of the society. It is worth noting that the development of recommendations for inculcating the teachings of Alloma in the education of the young generation, creating an environment and practice will give effective results. Including:

- ✓ Improvement of the 10th and 11th grade biology curriculum in the organization of in-depth study of the creative heritage of Abu Ali ibn Sina;
- ✓ organizing and publishing literature related to the scientific heritage of the great scientist, developing the library of Ibn Sina;
- ✓ promoting a healthy lifestyle based on the teachings of the great thinker, publishing books, brochures, and magazines;
- ✓ opening programs on television and radio that develop schoolchildren's knowledge of biology based on the teachings of Abu Ali Ibn Sina;
- ✓ wide introduction of events infused with Ibn Sina's teachings in classroom and extracurricular lessons to strengthen students' knowledge of biology;
- ✓ On the basis of the teachings of Ibn Sina, it is necessary to continue pedagogical research on the improvement of general secondary education [5].

The current era demands the need to improve biology textbooks and teach them using the teachings of Abu Ali ibn Sina. The approach to improving education on the basis of scientific heritage gives students the opportunity to acquire knowledge, develop a culture of attitude towards nature, and a scientific worldview. Therefore, on the basis of the analysis of our research, the following suggestions and recommendations were developed regarding the improvement of the content of biology textbooks. Section 3 of Chapter I entitled "Ecology and Life" in the Biology textbook for students of the 11th grade.

"Features of the ecosystem level of life. Biogeocenosis - biological system" topic:

- Types of plants, their appearance, nutrition, plant organs and their functions, reproduction and growth writes about the conditions.

Synthesis of biomass that supports the life of biogeocenous species; management of the constancy of the number of species; is the flow of substances and energy that ensure the stability of the biosystem.

- From the second book of the "Laws of Medicine" work: Zibturum, growing on the banks of streams, in fields and gardens, among vegetable and spice crops, cures old coughs, wounds, stomach, stomach, duodenum It is noted that it is the best plant in the treatment of diseases, various purulent wounds.

Schoolchildren have a unique potential with their spiritual maturity and knowledge. We know that the realization of the unique potential of a person is a phased and longest period of human development, which requires consistency, that is, a reality that is directly related to the process of quality education.

Improving the educational process, increasing its quality, applying the ideas of the great contribution of Abu Ali ibn Sina to the development of science and the scientific heritage of the achievements of the new stage in the development of school education to the general secondary education process, including biology lessons. there was a need to do it. These are: special scientific literature, scientific sources related to the topics studied in biology, and regular analysis of their content; Applying the ideas of Abu Ali ibn Sina's great contribution to the development of science and his scientific heritage to the teaching of Biology in general education schools; Growing awareness of national identity, formation of patriotism, pride for one's homeland, formation of respect for rich national cultural and historical traditions, intellectual heritage of our people; It is determined by the necessity of regular improvement of Biology textbooks and teaching manuals taught in general education schools.

List of references:

1. O'zbekiston Respublikasi Prezidenti Shavkat Mirziyoevning Oliy Majlisga Murojaatnomasi. O'zbekiston Respublikasi Prezidentining rasmiy veb-sayti. 29.12.2020 y.

2. Aliqulova M.M. VIII-IX sinf o'quvchilarining ta'lim jarayonini ijtimoiy pedagogik loyihalashtirishda innovatsion usullar. / Uslubiy qo'llanma. "Fan va texnologiya", Toshkent-2017, - 160 b.
3. Biologiya: Umumiy o'rta ta'lim maktablarining 11-sinfi uchun darslik: 1-nashr /Mualliflar: A.G'afurov, A.Abdukarimov, J.Tolipova va.b. T.: «Sharq», 2018. – 240 b.
4. Biologiya: Umumiy o'rta ta'lim maktablarining 10-sinfi uchun darslik: 1-nashr /Mualliflar: A.G'afurov, A.Abdukarimov, J.Tolipova va.b. T.: «Sharq», 2017. – 240 b.
5. Tojiboeva S. Methods Using Great Thinkers' Teachings about Nature and Human Health at Biology Lessons. Eastern European Scientific Journal. (ISSN 2199-7977), DOI 10.12851/EESJ201901. Germany №01. 2019. 379-384.