

DEVELOPMENT OF ECOLOGY IN UZBEKISTAN

R.N.Mo'minova

Associate professor of the Kokand State Pedagogical institute

G'.Mahkamov

Teacher of Kokand State Pedagogical institute

S.Sobirjonov

Teacher of Kokand State Pedagogical institute

Annotation. *At present, the issue of protection of nature and the solution of all environmental problems is one of the most important pressing problems after the maintenance of peace on Earth. The article covers the classifications of Ecology, Environmental Protection textbooks and manuals published by scientists of Uzbekistan to educational methodological works, dictionaries.*

Keywords: *environmental problems, "General ecology" , "fundamentals of Ecology", "Environmental Protection" textbooks, "environmental safety and sustainable development" training manual.*

Our state has achieved many successes in the years of independence. Like large countries, it created its own machine-building plant. At present, in our cities and villages, squares and streets have been renewed, and on these streets our own cars are walking. Oil products are extracted from oil fields. In other words, during the years of independence, our state has gained independence in the field of oil, machinery, production, gas production, oil and cotton production.

Special ecology courses were organized in the higher educational institutions of the Republic. For example: the Faculty of Soil Science and ecology was established at Samarkand State University. The Department of Ecology and Nature Protection began to function at this faculty. In this context, the state organizes lectures on such subjects as "Ecology", "Gidrobiology", "Biogeocenology", "Gidroecology" and "ecology of landscapes" in order to prepare environmental specialists and conducts training sessions for students. However, during this period there were practically no textbooks and manuals in the state language. The bores were also published in rare copies and were insufficient to teach the students a lesson. Below we give a classification of textbooks on Ecology, Environmental Protection and teaching aids published for the first time by scientists of Uzbekistan in the years of independence to methodical works, dictionaries.

A.Ergashev's textbook "General ecology" [1] was prepared on the basis of scientific theoretical bases of Ecology and on the basis of new data of the current science, programs for the development of environmental education and Education approved by the Ministry of oil and secondary special of the Republic of Uzbekistan.

In the textbook, the history of ecology, its functions, climatic factors and their impact on the growth, reproduction and spread of living organisms laws of the formation of various bioecological units of species, the vital forms of plants and animals the biotic relationship between organisms water, soil ecology, ecology of populations and biosenoses, environmental systems, their various laws, the definition of the biosphere human ecology, modern We found it necessary to add more to the property.

Ergashyev A, Ergashyev T. [2] "Ecology, biosphere and nature protection". This textbook was first published in the Latin alphabet. It examines environmental issues, global events in the biosphere, and conservation measures, and provides many examples.

Egamberdiyev. R. Eshjanov. R. [3] "Fundamentals of Ecology" Textbook for students of biology faculties of universities and pedagogical schools.

The textbook contains a brief history of the basics of ecology, the role of plants and animals, a description of ecosystems, the protection of the population's biosphere, the ecological situation in the country, its regulation, the cultivation of biologically pure products and measures to eliminate environmental factors. data are given. In addition, it contains a brief overview of the nature reserves located in the territory of the republic.

Articles 50, 54, 55 and 100 of the Constitution of the Republic of Uzbekistan [4] are devoted to the protection of the environment. For example, "Land, subsoil resources, water, flora and fauna, and other natural resources are national treasures that must be used wisely and are under state protection."

Sh.K. Shirinbaev, Safin.M.G's textbook "Environmental Protection" in Samarkand [5] teaches in accordance with the law "On Education" and the national program of training "Environmental Protection" The most up-to-date information on the subject The manual covers the theoretical foundations of the science, ecological concepts, biosphere, biocenosis, ecosystem environmental factors and practical aspects of environmental protection: problems of atmospheric protection, protection and rational use of land and water resources, plant resources and wildlife. environmental issues are reflected in sections such as conservation.

ZI Izzatullayev co-authored with IS Shukurov: The textbook "Ecological problems of the city" [6] was written on the basis of a program designed for students studying in the field of ecology. and its prevention measures, vehicle emissions, their impact on humans, and protection issues.

The advantage of the textbook is that it describes the pressure and pressure of the local area from environmental problems, and for the first time SamSU is used in the educational process for the specialty of ecologist.

So, in 2006, scientists of the Department of Ecology of the National University of Uzbekistan, Professor PU Rakhimova and Associate Professor HT Tursunov published a manual on ecology [7]. It covers the basics of ecology, applied ecology, environmental safety and sustainable development. At the same time, the legal, organizational and economic basis for ensuring environmental security is given. Special attention is paid to the study and solution of environmental problems in Uzbekistan. The most successful part is that it includes control questions, test assignments, abstracts and lectures.

Environmental education is included in the curriculum of higher education institutions in the country. In the educational process, students are taught about nature protection, economics of nature use, environmental protection and rational use of natural resources, and other environmental specialties. A lot of scientific work has been done in this area. Textbooks and manuals on ecology have been created.

In her dissertation on "Formation of ecological culture of students of general secondary education" NO Nishonova studied the formation of ecological culture of adolescents as a pedagogical problem. Its essence, content, components are covered. The pedagogical and psychological aspects of the formation of ecological culture are clarified, the factors influencing the effectiveness of the formation of ecological culture in the process of literary education, the main criteria in this regard are identified. Their effectiveness has been tested experimentally [8].

A lot of research has been done in the field of pedagogical theory. Sh.Avazov's dissertation on "Ecological education of senior students of rural schools in the process of local lore" provides a pedagogical analysis of the history of local lore and nature protection in the education of Uzbekistan. Social and psychological-pedagogical significance of the formation of ecological culture in the process of ecological and local lore activities, the state of ecological education of senior students of

rural schools in the process of extracurricular ecological and local lore activities, ways to increase efficiency, content and tasks, activities, criteria illuminated [9].

A. Nigmatov's pamphlet "What is ecology" develops one of the most pressing issues of the XXI century - social, economic, political, natural aspects of environmental problems, as well as plans and educational directions of educational and cultural activities. A. Nigmatov, G. Pardaev's textbook "Environmental Security and Sustainable Development" covers the theoretical and practical aspects of achieving environmental security and sustainable development at the local, national, regional and global levels. The manual is devoted to the ways of solving economic, social and environmental problems in a single system, which hinders the harmonious and peaceful life of human society, and focuses on the features of the educational process on the basis of new pedagogical technologies. [10].

In the textbook "Environmental Law" by A. Nigmatov the concept of environmental law, stages of development, subject, ecological-legal relations and ecological-legal mechanism, sources of ecological law, management, ecological cadastre, control and examination, responsibility, ecological-legal protection of lands, issues such as ecological and legal regulation of water and water use, ecological and legal protection of subsoil resources, flora, forests are theoretically based [11].

I. Kholliyev, A. Ikramov's textbook "Ecology" covers the basic concepts and principles of ecology, its historical development, environmental problems in the context of the scientific and technological revolution and the importance of science in solving them, the basics of rational management of natural resources and their use. are scientifically and methodologically based. In this manual, the social aspects of the environmental problem, philosophical views on the unity of man, society and nature, social ecology, environmental ideology and culture, environmental education - as part of a comprehensive education of students of secondary special, vocational education institutions shown in [12].

Thus, it can be seen from the above that in recent years, the publication of textbooks and manuals on ecology for higher education students has increased compared to previous years. However, new publications need to address more local environmental issues and enrich them with new technological approaches.

Our goal is to analyze all the environmental literature, to understand the role of literature published in the state language during the years of independence in educating young people in environmental education.

Thus, from the above, it can be seen that in recent years, the publication of textbooks and manuals on ecology for higher education students has increased compared to the previous 2014-2017. However, new publications need to address more local environmental issues and enrich them with new technological approaches.

Our goal is to analyze all the environmental literature, to understand the role of literature published in the state language during the years of independence in educating young people in environmental education.

REFERENCES

1. Ergashev Ahmadqul Umumiy ekologiya Toshkent, O'zbekiston 2003.
2. Ergashyev A, Ergashyev T. bilan hamkorlikda: "Ekologiya biosfera va tabiatni muhofaza qilish" Toshkent . Yangi asr avlodi 2005, 434 b
3. Egamberdiyev. R. Eshjanov. R. "Ekologiya asoslari" Universitetlar va pedagogika o'quv yurtlarining biologiya fakulteti talabalari uchun darslik "Zar qalam" 2004 y 225 bet.

4. O'zbekiston Respublikasi Konstitutsiyasi.(O'n ikkinchi chaqiriq O'zbekiston Respublikasi Oliy kengashining o'n birinchi sessiyasi (1992 yil 8 dekabr)da qabul qilingan). –T.: Adolat, 1992. – 49 b.
5. Shirinboyev Sh.Q., M.G Safin. “Atrof muhitni muhofaza qilish” Samarqand (SamDChTI 2003-yil)
6. Izzatullayev Z.I.I., Shukurov S. “Shaharning ekologik muammolari” (Samarqand, SamDU 2005)
7. Raximova P.U., H.T.Tursunov. Ekologiya fanidan uslubiy qo'llanma. (Toshkent 2006)
8. Bozorova N. Talabalarda ekologik madaniyatni shakllantirishning ilmiy-pedagogik asoslari.(oliy ta'lim muassasalari misolida) Ped. fan. nom. ... diss. avtoref. – T.: 2006. – 158 b.
9. Nig'matov A. Ekologiya huquqi // Akademik-litsey va kasb-hunar kollejlari uchun darslik. – T.: 2003. 283 b.
10. Xolliyev I., Ikromov A. Ekologiya // Kasb-hunar kollejlari uchun qo'llanma. –T.: Mehnat, 2001. – 208 b.
11. Шоякубов, Р. Ш., & Муминова, Р. Н. (2002). Биологическая очистка сточных вод гидролизных производств путем культивирования высших водных растений. *Узбекский биологический журнал*, (5-6), 35-38.
12. Муминова, Р. Н. (2017). Водоросли очистного сооружения. *Молодой ученый*, (4-2), 28-30.
13. Холдаров, Д. М., Собиров, А. О., Муминова, Р. Н., & Холдарова, М. М. (2020). Шурланган утлоки саз тупроклар ва шурхокларнинг биогеохимёвий хоссалари. *Life Sciences and Agriculture*, (2-2), 65-69.
14. Махкамов, Г. М., & Рузमतов, Р. Я. (2020). Педагогические и психологические проблемы обучения детей с нарушениями зрения. *Наука и мир*, 2(4), 84-86.
15. Облабердиева, К. Д., Махкамов, Г. М., Рузметов, Р. Я., & Абдупаттоев, Х. А. (2016). Воспитание информационной и нравственной культуры у современной молодежи в интернете. In *Сборники конференций НИЦ Социосфера* (No. 12, pp. 116-118). Vedecko vydavatel'ske centrum Sociosfera-CZ sro.
16. Mahkamov, G. M., & Ruzmatov, R. Y. (2021). About the practice of using excursions in natural lessons. *ACADEMICIA: An International Multidisciplinary Research Journal*, 11(3), 2066-2070.
17. Ravshanbek, J. (2022). CREDIT-MODULE SYSTEM, ITS BASIC PRINCIPLES AND FEATURES. *Yosh Tadqiqotchi Jurnal*, 1(4), 304-309.
18. O'G'Li, J. R. M. (2022). METHODS OF ORGANIZING INDEPENDENT STUDY OF STUDENTS IN THE CREDIT-MODULE SYSTEM. *Ta'lim fidoyilari*, 25(5), 93-97.
19. Jorayev, N. S. (2021, July). QUALITY LEARNING PROCESS-AS A MECHANICAL SUM OF TEACHING AND LEARNING PROCESSES. In *Euro-Asia Conferences* (pp. 57-59).
20. Sadullayevich, J. N. (2021). Improving psychological technologies for the development of professional reflection in future teachers. *ACADEMICIA: AN INTERNATIONAL MULTIDISCIPLINARY RESEARCH JOURNAL*, 11(1), 229-232.
21. Джураева, М. А. (2022, May). ПРИЁМЫ КОНТРОЛЯ УРОВНЯ ЗНАНИЙ НА УРОКАХ РУССКОГО ЯЗЫКА И ЛИТЕРАТУРЫ. In *INTERNATIONAL SCIENTIFIC RESEARCH CONFERENCE* (Vol. 1, No. 3, pp. 28-32).
22. Abdukakhhorovna, Z. M. (2022). Lexical Polysemy of the Russian Language. *Middle European Scientific Bulletin*, 22, 77-81.