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MUNDARIJA (CONTENTS)

MEHNAT BOZORI VA MEHNAT MUNOSABATLARI

Q.X. Abdurahmonov S.B. G'oyipnazarov	Сунъий интеллектни жорий этиш натижасида меҳнат бозоридаги ўзгаришлар	6–12
R.I. Nurimbetov A.M. Ismailov	O'zbekiston iqtisodiyoti tarmoqlari rivojlanishi va aholi bandligini manfaatdorlik indeksi asosida baholash	13–21
N.T. Shayusupova S.S. Amirdjanova	Прогнозирование макроэкономических показателей роста экономики и занятости населения республики	22–29
I.A. Bakiyeva	Тошкент вилоятида ишсизларни замонавий касб-ҳунарга ўқитишни самарали ташкил этиш йўллари	30–34
S.I. Sotnikova	Наемный труд: институциональные эффекты неравновесной экономики .	35–41
A.S. Usmanov M.A. Bahridinova	Qashqadaryo viloyatida bandlikning tarmoq tuzilishidagi o'zgarishlar va uning aholi turmush farovonligiga ta'siri	42–48
X.F. To'xtayeva	Туристик хизматлар бозорида бандликни тартибга солиш ва бошқариш бўйича илғор хорижий тажрибалар	49–56
B.Z. Ganiyev	O'zbekiston hududlarida bandlikning iqtisodiy o'sishga nisbatan elastikligi tahlili	57–61

INSON RESURSLARINI BOSHQARISH

S. Sotnikova N. Sotnikov	Ecology of the employee's career based on the concept of time management .	62–70
A.N. Turayev B.B. Suvonov	Направления развития анализа затрат труда в хозяйствующих субъектах	71–76
B.B.Suvonov	Зарубежный опыт анализа показателей затрат труда в хозяйствующих субъектах	77–82
Z.M. Xasanova	Enhancing economic education and human resources management: a study of innovative approaches in Uzbekistan's higher education institutions	83–91
R.R. Oqmulloyev	Инсон ресурсларини бошқариш — олий таълим муассасаларининг глобал рақобатбардошликка эришиш омили	92–102
B.B. Mardonov	Xizmat ko'rsatish sohasida kadrlar salohiyatini baholash	103–108
M.Sh. Xaydarova	Использование искусственного интеллекта в управлении человеческими ресурсами	109–123

INSON KAPITALI

A. Zikriyoyev D. Khojamqulov M. Raimjanova N. Turayev A. Abdullayev	Human capital development in the context of health and safety regulation: policy analysis in construction industry	124–138
A. Zikriyoyev M. Farmonova Ch. Keldiyorova D. Nekboyev O. Murodova	Orientation / induction day as a remedy for human capital investment at higher education	139–150
A.S. Boltayev Y.M. Otaboyev	The impact of health and education expenditure on economic growth in case of Uzbekistan	151–163
O.A. Eshbayev	Strategic integration of emerging technologies in engineering education: a holistic approach to cultivate human capital for the digital economy	164–169

A.O. Jumanov R.A. Omirzakov	Innovative environmental education in higher education: fostering sustainable mindsets for a greener future	170–175
I.Sh. Khadjiyeva	School climate quality and education quality: evidence from 15 worst performing nations at PISA 2018	176–187
M.O. Kurolov	Leveraging digital healthcare marketing strategies to enhance social welfare through human capital development	188–192
M. Numanova F. Khakimov	Priorities for the development of national human capital in the economy	193–198
M.X. Xo‘jayeva	Properties of innovative activity in the education system of Uzbekistan	198–203
H.T. Yaxshiyev	Mehmonxona hamda restorani biznesi faoliyati tushunchasi va mohiyati	204–206
X.B. Nasriddinov	O‘quvchilarning kreativ fikrlashini rivojlantirishda ta‘lim metodlaridan foydalanish	207–210
Sh.Y. Sharobiddinov	Investing in human capital: a comparative analysis of democratic and authoritarian regimes	211–220
Z.M. Xasanova	Comparative analysis of innovative education management strategies for economic education and green development: lessons from foreign countries	221–228
S.R. Xolbayeva	Трансформация системы подготовки кадров в целях повышения эффективности функционирования человеческого капитала в экономической системе	229–238
INSON TARAQQIYOTI		
Sh.U. Jo‘rayeva	Socio-economic significance and analysis of the standard of living of the population	239–244
N.M. Khazratkulova	The impact of inter-budgetary relations on regional growth and the standard of living of the population of the regions (on the example of the republic of Uzbekistan)	245–250
KAMBAG‘ALLIKNI QISQARITRISH		
G.Q. Abduraxmonova M.X. Fayziyeva Sh.Q. Xoliyorova	O‘zbekiston davlat ijtimoiy himoya tizimini mustahkamlashda raqamli rivojlanishning o‘rni	251–261
GENDER TENGLIK		
G.Q. Abruraxmonova N.U. Khalimjonov	Gender inequality in labour market	262–268
MUNOSIB MEHNAT		
Sh.X. Raxmatullayeva	Milliy korxonalarda mehnat samaradorligining muhim ko‘rsatkichlarini baholash tizimini imkoniyatlari	269–275
Z.U. Usmonov	Ko‘zi ojiz shaxslarni ish bilan ta‘minlashning obyektiv zarurligi	276–283
TADBIRKORLIKNI RIVOJLANTIRISH		
L.F. Amirov	Современные тенденции развития аграрного сектора Республики Узбекистан	284–293
I. Khotamov A. Kasimov Y. Najmiddinov G. Yuldashev	The current importance of alternative energy and renewable energy in Uzbekistan	294–317
Z.T. Abdurakhmanova	Factors affecting sustainable agriculture and food production in Uzbekistan	318–328
J.X. Ishanov	Determination of hydraulically acceptable length of drip irrigation pipe	329–334

U.Sh. Duskobilov	Influence of monetary policy instruments on macroeconomic stability during the transition to inflation targeting in Uzbekistan	335–342
Sh.D. Ergashkhodjayeva E.Y. Khojiyev	The EU’s generalised system of preferences: impact on foreign trade of domestic products	343–348
O.A. Eshbayev	Exploring synergies: redefining engineering education management for industry 4.0 in the digital economy era	349–354
H.B. Haydarov	O‘zbekistonda makroiqtisodiy barqarorlikni ta’minlashda xorijiy investitsiyalarning tutgan o‘rni	355–361
M.R. Khidirova	Improving the efficiency of corporate governance based on the modeling of agricultural machinery enterprises	362–369
B.N. Ishniyazov	Analysis of the activities of innovation of the agricultural sector of our country	370–374
N.N. Ismoilov	Implementing SDGS (sustainable development goals) in small business entities	375–380
N.S. Karimova	O‘zbekistonda klasterlar faoliyatini tashkil etish mexanizmi	381–385
M.R. Khayitova	The essence of green loans in a global unstable environment	386–391
S.B. Maxmudov	Milliy iqtisodiyotda eksport amaliyotiga ta’sir etuvchi omillarni ekonometrik tahlilini baholash	392–401
Y.F. Najmiddinov	Initial efforts to develop green energy and green growth in Uzbekistan	402–407
Ch.G. Nosirova	Developing sustainable pathways for textile product exports: a green strategy approach to enhance social welfare	408–415
N. Khalimjonov P. Allayarov	The gravity trade model for Uzbekistan	416–424
D. Usmonova	Evaluating the role of marketing strategies in fostering the growth of viticulture enterprises for achieving sustainable agricultural development	425–431
МАКРОИҚТИСОДИЙОТ		
A. Valiyeva	Assessing the impact of sustainable agricultural practices on legume market dynamics: a comprehensive marketing research analysis	432–440
V.K. Yarashova	The mutual influence of transport on macroeconomic indicators in Uzbekistan	441–447
M.S. Yusupov G.T. Ismoilova	Oziq-ovqat mahsulotlari ishlab chiqarish zanjirida agrosanoat klasterlarining ahamiyati va rivojlantirish imkoniyatlari	448–459
M.T. Abdurahmanova M.M. Ismailova	Қишлоқ хўжалигида ер ресурсларидан самарали фойдаланишнинг хориж тажрибасини такомиллаштириш	460–465
N.B. Achilova	Сущность и значение национального брендинга стран в условиях глобализации	466–474
J.N. Bayisbayev	Мамлакатимизнинг тадбиркорлик субъектларини ижтимоий фаолиятини қўллаб-қувватлашдаги иштироки	475–481
A. Valiyeva	Оценка роли устойчивых методов ведения сельского хозяйства в повышении конкурентоспособности рынков бобовых: глобальный маркетинговый анализ	482–490
F.R. Bobobekov	Мақроқиқтисодий барқарорлик шароитида факторингга таъсир этувчи омиллар	491–497
D.B. Xajiyev	Даромадларни қайта тақсимлаш жараёнларини тартибга солишнинг фискал воситалари	498–504



INNOVATIVE ENVIRONMENTAL EDUCATION IN HIGHER EDUCATION: FOSTERING SUSTAINABLE MINDSETS FOR A GREENER FUTURE

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Abstract. This article explores the importance of innovative environmental education in higher education institutions and its potential to cultivate sustainable mindsets among students. It examines various methods employed by universities worldwide to integrate environmental education into their curricula, highlighting the positive results achieved. The discussion emphasizes the need for continued efforts in promoting environmental literacy and sustainable practices among higher education students, ultimately contributing to a greener future.

Keywords. innovative environmental education, higher education, sustainable mindsets, curriculum integration, environmental literacy, sustainable practices

OLIV TA'LIMDA INNOVATSION EKOLOGIK TA'LIM: YASHIL KELAJAK UCHUN BARQAROR FIKRLASHNI RIVOJLANTIRISH

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Annotatsiya. Ushbu maqolada oliy o'quv yurtlarida innovatsion ekologik ta'limning ahamiyati va uning talabalarda barqaror fikrlashni rivojlantirish imkoniyatlari ko'rib chiqiladi. Maqolada dunyo universitetlari tomonidan ekologik ta'limni o'quv dasturlariga kiritish uchun qo'llanayotgan turli usullar ko'rib chiqilib, erishilgan ijobiy natijalar qayd etilgan. Muhokama oliy ta'lim talabalari o'rtasida ekologik ong va barqaror amaliyotni rivojlantirish bo'yicha keyingi sa'y-harakatlar zarurligini ta'kidlaydi, bu esa pirovardida yashil kelajakni barpo etishga xizmat qiladi.

Kalit so'zlar. innovatsion ekologik ta'lim, oliy ta'lim, barqaror fikrlash, o'quv dasturlari integratsiyasi, ekologik savodxonlik, barqaror amaliyotlar

ИННОВАЦИОННОЕ ЭКОЛОГИЧЕСКОЕ ОБРАЗОВАНИЕ В ВЫСШЕМ ОБРАЗОВАНИИ: ФОРМИРОВАНИЕ УСТОЙЧИВОГО МЫШЛЕНИЯ ДЛЯ БОЛЕЕ ЗЕЛЕННОГО БУДУЩЕГО

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Аннотация. В данной статье рассматривается значение инновационного экологического образования в высших учебных заведениях и его потенциал для формирования у студентов устойчивого мышления. В статье рассматриваются различные методы, применяемые университетами повсеместно для интеграции экологического образования в учебные программы, и отмечаются достигнутые положительные результаты. В ходе обсуждения подчеркивается необходимость дальнейших усилий по развитию экологической грамотности и устойчивых практик среди студентов высших учебных заведений, что в конечном итоге будет способствовать построению более экологичного будущего.



Ключевые слова. инновационное экологическое образование, высшее образование, устойчивое мышление, интеграция учебных программ, экологическая грамотность, устойчивые практики

Introduction:

Environmental education plays a crucial role in higher education, as it equips students with the knowledge and skills necessary to address pressing environmental challenges. However, traditional approaches to environmental education may not effectively engage students or foster sustainable mindsets. Thus, innovative methods are required to ensure that higher education institutions effectively educate and inspire future leaders to create a greener and more sustainable world. As the world grapples with the challenges of climate change and environmental degradation, it has become increasingly important to incorporate environmental education into higher education curricula. This article explores the significance of innovative environmental education in higher education and its role in fostering sustainable mindsets for a greener future. The article presents the results of various studies conducted on the effectiveness of such education, followed by a discussion on its implications and potential for further development.

Definition of Environmental Education:

The term environmental education appeared in 1947. So, when did the earliest definition of environmental education come into being? The concept of environmental education in terms of modern pedagogy and its evolutionary history feels closely tied to our understanding and development of human psychology, sociology, and how humans learn. In this context, environmental education is a relatively recent field of study and predicated on the acceptance of our hypotheses by a small community of scholars. Stapp and his colleagues promoted the definition of environmental education, which was based on American pragmatism. They believed that emphasizing environmental knowledge could change reality through the power of action. Therefore, practical experience in environmental education was considered important because it emphasized taking knowledge and using that knowledge and/or experience to solve problems on natural resource management [1, 4]. Thus, environmental action or doing was better than dogma, and environmental experience was better than rigid principles. Therefore, the concept of environmental education had evolved to become a critical and creative clarification for research questions and value clarification [2], interpreting environmental knowledge as a process of assessing the real environment, and scientific exploration. The spirit of humanity, the standard of conduct was then incorporated into the real environment of human beings.

The relationship between higher education and green economic growth:

Human life depends on the land. Plants provide 80 percent of our food, and we rely on agriculture as an important economic resource and means of development. Forests make up 30 percent of the Earth's surface, providing vital habitat for millions of species of flora and fauna and are an important source of clean air and water. They are also crucial to combating climate change.[3, 89]

Environmental sustainability plays a vital role in the universities because the university activities have both direct and indirect environmental impacts concerning usage of electricity, waste generation, material consumption, enormous movement of people, and transport on campus. The achievement of campus sustainability is effectively possible through the involvement of students because they are the major participants of the university sectors [4].

Scholars mainly focus on the relationship of education and regional economic growth, such as Cafry and Isaacs[5] discussed from the perspective of material capital, the effects of higher education in creating more employment opportunities for regional development and expanding the economic foundation. Later, Bluestone [6] turned his attention to the high-level talents cultivated by higher education, from the perspective of human capital; it studied the indirect impact of the social and economic values created by the talents on the regional economy as a key research. Ahmad and Khan [7, 754] found the inclusion of human capital in level form makes economic growth more sensitive to



► **Inson kapitali**

changes in human capital. Alvarado et al. [8] found that human capital does decrease the consumption of non-renewable energy.

Harloe and Perry [9, 213] and others are based on the social service function of colleges and universities and believe that the development of college service areas is itself a “knowledge innovation model.” Goldstein and Drucker (2006) and others further measured the contribution of this service.

Teaching environmental law on a transdisciplinary and comparative basis:

A clear case can also be made for a transdisciplinary approach to the study of environmental law. In other words, the relevant areas of the natural and social sciences and subjects such as environmental philosophy should be included in environmental law courses. Law schools must therefore more effectively reach into the other disciplines, and become part of those disciplines. Further, those in environmentally relevant disciplines must also interact with legal scholars. Further, an argument can be made for the study of environmental law on a comparative basis. In order to ensure that best practice environmental law is promoted, it is strongly argued that environmental law courses incorporate, as far as possible, some study of comparative environmental law. This is particularly important for countries where environmental law systems are well advanced, to give students an appreciation of problems of developing countries in addressing their environmental issues. There is a need to sensitise them to the difficulties of developing countries relating to population pressure, urban pollution, biodiversity loss and the demand for economic growth through industrialisation and the consequent need for adequate environmental law to address the problems arising from these pressures. It is also important for students in developing countries to study more advanced environmental law systems, in order to adapt techniques and policies which may be appropriate to their own cultural social political and economic context. [10, P. 463-464]

Methods:

1. Experiential Learning:

Experiential learning is a powerful tool in environmental education. It involves hands-on experiences that allow students to directly interact with the environment and understand the impact of their actions. Field trips to natural reserves, ecological restoration projects, or even on-campus sustainability initiatives provide students with opportunities to observe, analyze, and reflect upon real-world environmental challenges. This method helps students develop a deeper understanding of the interconnectedness between human activities and the environment, fostering a sense of responsibility and promoting sustainable behaviors.

2. Project-Based Learning:

Project-based learning involves students working collaboratively on real-world projects that address environmental issues. This method encourages critical thinking, problem-solving, and creativity while providing students with a sense of ownership and empowerment. By engaging in projects such as designing sustainable campus infrastructure, developing community gardens, or conducting research on renewable energy, students can apply theoretical knowledge to practical situations. This approach not only enhances their understanding of environmental concepts but also equips them with skills required for future sustainability careers.

3. Interdisciplinary Approaches:

Environmental issues are complex and multifaceted, requiring interdisciplinary solutions. Higher education institutions can foster sustainable mindsets by incorporating interdisciplinary approaches into their environmental education programs. By integrating subjects such as biology, chemistry, sociology, economics, and policy studies, students gain a holistic understanding of environmental challenges and potential solutions. This approach encourages critical thinking, collaboration, and the ability to consider multiple perspectives, preparing students to tackle real-world sustainability issues effectively.

4. Technology Integration:

Incorporating technology into environmental education can enhance students' learning experiences and foster their engagement. Virtual reality (VR) and augmented reality (AR) can be used to simulate environmental scenarios, allowing students to explore different ecosystems and understand



the impact of human activities. Online platforms and mobile applications can provide access to real-time data, enabling students to monitor environmental parameters and contribute to citizen science projects. By utilizing technology, higher education institutions can create interactive and immersive learning experiences that inspire students to become environmentally conscious.

Analysis and results:

The integration of innovative environmental education methods in higher education has yielded positive results. Students who have undergone such programs have shown increased environmental literacy, critical thinking skills, and a heightened sense of environmental responsibility. They are more likely to adopt sustainable practices in their personal lives and become advocates for environmental causes. Furthermore, universities that prioritize environmental education have witnessed the development of sustainable campus infrastructures, reduced carbon footprints, and enhanced community partnerships.

Several studies have shown that innovative environmental education in higher education has a positive impact on students' knowledge, attitudes, and behaviors towards the environment. For instance, a study conducted by Smith and Johnson [11, 148] found that students who participated in an interdisciplinary environmental education program showed a significant increase in their environmental knowledge compared to those who did not. Another study by Thompson et al. [12, 1-12] revealed that students who engaged in hands-on environmental projects demonstrated a greater willingness to adopt sustainable practices in their daily lives.

Furthermore, innovative approaches to environmental education, such as experiential learning, have been found to be particularly effective. A study by Brown and Jones [13, 727] demonstrated that students who participated in outdoor field trips and practical activities related to environmental issues showed a deeper understanding and appreciation for nature, leading to increased pro-environmental behaviors.

Advantages of environmental education:

1. There are several advantages of incorporating environmental education into higher education to improve the economy. These advantages include:

2. Job creation: Environmental education helps in creating new job opportunities in sectors such as renewable energy, sustainable agriculture, waste management, and environmental consulting. A study conducted by the Bureau of Labor Statistics in the United States found that employment in renewable energy occupations is projected to grow faster than average for all occupations, offering numerous job prospects for graduates with environmental education backgrounds.[14]

3. Innovation and entrepreneurship: Environmental education fosters innovation and entrepreneurship by encouraging students to think critically and creatively about environmental challenges. This can lead to the development of sustainable technologies, products, and services that address environmental issues while creating economic value. A study published in the Journal of Cleaner Production found that environmental education programs in higher education institutions positively influence students' entrepreneurial intentions and their ability to develop sustainable business ideas.[15]

4. Cost savings: Incorporating environmental education in higher education can lead to cost savings for businesses and individuals. Graduates with environmental education backgrounds are equipped with the knowledge and skills to implement energy-efficient practices, waste reduction strategies, and sustainable resource management techniques. These practices can result in significant cost savings for businesses through reduced energy consumption, waste disposal fees, and resource expenditures.

5. Market demand for sustainability: Consumers are increasingly demanding sustainable products and services. By integrating environmental education into higher education, graduates are prepared to meet this market demand and contribute to the growth of sustainable industries. A report by Nielsen found that 81% of global consumers feel strongly that companies should help improve the environment, indicating a significant market opportunity for businesses that prioritize sustainability.[16]



Discussion:

The results of these studies highlight the importance of incorporating innovative environmental education in higher education institutions. By providing students with opportunities to engage in hands-on experiences and interdisciplinary learning, they develop a holistic understanding of environmental challenges and solutions. This, in turn, fosters a sense of responsibility and empowers them to make sustainable choices in their personal and professional lives.

While innovative environmental education methods have proven effective in higher education, there is a need for continuous improvement and expansion. Institutions should collaborate with industry partners and environmental organizations to develop cutting-edge curricula that address emerging environmental challenges. Faculty members should be encouraged to incorporate sustainability principles into their teaching and research. Moreover, universities must prioritize the professional development of educators to ensure they possess the necessary knowledge and skills to deliver effective environmental education. By doing so, higher education institutions can play a pivotal role in shaping a generation of environmentally conscious leaders.

Moreover, innovative environmental education can also contribute to the development of critical thinking and problem-solving skills. By encouraging students to analyze complex environmental issues from multiple perspectives, they become better equipped to tackle real-world challenges. This interdisciplinary approach not only enhances their academic growth but also prepares them for careers in sustainability and environmental management.

Additionally, innovative environmental education can help bridge the gap between academia and society. By involving students in community-based projects and partnerships, higher education institutions can create a platform for collaboration and knowledge exchange. This not only benefits the local community but also provides students with valuable opportunities to apply their knowledge and skills in real-world contexts.

Conclusion and suggestions:

1. Collaboration and Partnerships: Higher education institutions should establish partnerships with environmental organizations, government agencies, and industry stakeholders. These collaborations can provide resources, expertise, and networking opportunities for students and faculty. Joint research projects, guest lectures, and internships can foster a strong connection between academia and the real-world environmental challenges faced by Uzbekistan.

2. Faculty Development: Investing in faculty development programs focused on environmental education is essential. Providing training, workshops, and resources for faculty members will enable them to incorporate sustainability concepts into their teaching methods and curriculum. This will ensure that students receive quality education and guidance in environmental issues.

3. Engaging Students and Raising Awareness: Creating student-led environmental clubs, organizing sustainability-focused events, and encouraging student participation in environmental initiatives can foster a sense of ownership and responsibility among the student body. These activities can also raise awareness about environmental issues and inspire others to take action. Additionally, incorporating environmental education into orientation programs can help incoming students understand the importance of sustainability from the beginning of their academic journey.

Environmental education plays a vital role in promoting awareness, fostering sustainable behavior, encouraging stewardship, enhancing critical thinking skills, and building a sustainable future. It is an essential tool for individuals to understand the environment and take necessary actions to protect it. It equips students with the knowledge, skills, and mindset necessary to understand and address environmental challenges, promotes sustainable practices, fosters innovation and entrepreneurship, and enhances employability. By integrating environmental education into higher education curricula, institutions can contribute to the development of a workforce capable of driving the transition towards a greener and more sustainable economy.





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