

THE ROLE OF HUMAN CAPITAL IN THE MODERN DIGITAL ECONOMY

Associate Professor of Bukhara State University, Ph.D.

Zaripova Gulbahor Komilovna

Email: dersuzala1972@gmail.com, g.k.zaripova@buxdu.uz,

phone: (99897) 280-72-01,

teacher of Bukhara State University

Norova Fazilat Faizulloevna

Email: f.f.norova@buxdu.uz,

phone: (998 93) 623-60-22.

Abstract. In the conditions of the digital economy, human capital is becoming one of the most important factors of economic growth and economic development. This article focuses on the role of human capital in the digital economy and the importance of investing in human capital.

Key words: Digital economy, human capital, economic growth, digital technologies.

Introduction. Human capital is the knowledge, skills and abilities that people possess and can use to create economic value. This includes formal education, on-the-job training, work experience, and other intangible assets such as creativity, critical thinking, and communication skills. Human capital is an important resource for business and the economy because it allows people to perform tasks more efficiently, develop new ideas and products, and adapt to changing market conditions.

The term human capital refers to the economic value of a worker's experience and skills. Human capital includes assets such as education, skills, health and other assets such as loyalty and punctuality of employers. Thus, it is an intangible asset or quality that is not reflected on the company's balance sheet. Human capital is believed to increase efficiency and at the same time profitability. The more the government invests in human capital, the more likely it is that it will be effective and successful.

The main concepts include the following:

- human capital is an intangible asset that is not reflected on the company's balance sheet.
- human capital includes qualities such as the experience and qualifications of an employee.
- employers can improve their human capital by investing in training, education and benefits for their employees.
- human capital is believed to be associated with economic growth, efficiency and

profitability.

Like any other asset, human capital has the ability to depreciate during long periods of unemployment and failure to adapt to technology and innovation. It should also be noted that human capital ends when a person's health declines or dies.

The concept of human capital recognizes that not all work is created equal. But employers can improve the quality of this capital by investing in employees. This can be achieved through the knowledge, experience and skills of employees. All of this has great economic implications for employers and the economy as a whole.

Methodology. Human capital becomes even more important in the digital economy as technology constantly evolves and businesses need workers who can keep up with the pace of change. Advances in artificial intelligence, machine learning and automation mean that many traditional jobs are becoming obsolete and new ones are emerging that require digital skills. For example, careers in data analytics, cybersecurity, and software development are in high demand. This requires a strong foundation in digital literacy and technical skills. Effective economic development and reaching the level of developed countries directly depends on the price of education, its quality and efficiency. Education is the key to unlocking human potential. It is of great practical importance, increases human capital, increases labor productivity and produces competitive personnel.

Additionally, the digital economy is characterized by rapid innovation and change, and companies that can innovate quickly and efficiently are more likely to succeed. Human capital is a key driver of innovation because skilled workers can develop new products, services and business models that meet changing customer needs. Companies that invest in the training and development of their employees can be innovative and achieve long-term success.

The growth of the digital economy affects every aspect of life. Digital skills are particularly important as they underpin how we interact and how we do business today. Without digital skills, it is impossible to stimulate innovation and remain competitive. The same applies to the general public, who need digital skills in their daily professional activities or personal lives.

Indices for measuring human capital. Identifying and improving people's mental abilities is the key to higher incomes. For this reason, many scholars have conducted research on the characteristics and performance of human capital.

Guest (in 1997, Guest conducted research to determine the characteristics of human capital. These are sales, financial indicators, efficiency or products and services, services provided to the consumer, the number of errors, customer satisfaction and indicators of quality of goods and services, delay indices, validation and other indices, according to the 2003 Stiles Human Capital Indices Study:

1. Human capital effectiveness and measurable aspects.

2. Introduction of new forces – compliance with price, time, quantity, quality, strategic criteria.
3. Rotation, dismissal – reasons for leaving work.
4. Remuneration, compensation for services – level of payments, differences, assessment of fairness, customer satisfaction.
5. Competence, training – measurement of competence, skills, distance between competence and investment.
6. Human power diagram – age, level of promotion, cooperation in management activities, knowledge, diversity.
7. Usage criteria – per capita income, operating expenses, real value added. Investments in human capital.

To succeed in the digital economy, you need to invest in human capital. This means providing education and training programs that give workers the skills they need to thrive in a digital environment. It also means creating a culture of continuous learning and development, where employees are encouraged to acquire new skills and knowledge throughout their careers.

Governments also play a role in human capital development by investing in education and training programs, encouraging businesses to invest in their employees, and supporting research and development initiatives that stimulate innovation.

Analysis. The digital economy is a virtual environment that complements real reality. It is necessary to develop technologies and developments for the further development of the digital economy. The training requires qualified personnel with practical skills in the production and use of blockchain. Taking into account foreign experience, it is necessary to set a goal and complete a number of tasks, such as creating a legal basis for the implementation of blockchain technologies.

Digitalization of the economy exists as a separate branch of the economy for two reasons. First, new economic models are needed because many traditional assumptions about information can no longer hold in the digital world. Second, the new types of data created by digitization require new methods of analysis. International experience shows that today digital technologies are developing rapidly, mainly in the scientific community and in the private sector. Therefore, the state creates a favorable ecosystem by supporting innovative projects in these areas. We need to develop e-commerce and electronic transfers. The speed of online bill payment, mobile payments, Internet and utilities is not high. This compares to 96% in the UK. In Uzbekistan it is 34%, and we need to bring this figure to 100%. With the development of the digital economy, we can increase human capital on a large scale.

According to a World Bank study, two-thirds of the world's wealth is accumulated through human capital. The importance of human capital in the economy is clearly demonstrated by the development of the digital economy in highly developed and

economically leading countries. For example, in Japan, land and natural resources are lagging far behind. However, Japan ranks third in the world in human capital development.

Another such country, Singapore, is considered one of the richest countries in the world. This country has also gained independence in the digital economy through investment in human capital.

The World Bank publishes a human capital index every year. Currently, 174 countries are participating. Participated in Uzbekistan for the first time in 2020. This includes information about health and education. The index value ranges from 0 to 1. Uzbekistan, which took part in this study for the first time, showed a result of 62%. In other words, Uzbekistan ranks second among the CIS countries after the Republic of Belarus (70%), Russia (68%) and Kazakhstan (63%).

Results. The introduction of the digital economy has already begun in developed countries. This is one of the conditions for the globalization of the world economy and the development of technology. It is impossible to increase human capital without developing the economic development of Uzbekistan. According to the World Bank, 66 percent of our total wealth, or \$365 trillion, is created by human capital. That is why the head of our state said in his address: “The greatest wealth is intelligence.”

They said that today economically developed countries pay great attention to the digital economy and the development of human capital through it. The UK is a world leader in developing the digital economy.

At the same time, Uzbekistan pays attention to the development of human capital to achieve high results in the future. The “Digital Uzbekistan – 2030” strategy was developed to develop the digital economy and train new skills. According to him, the implementation of more than 220 priority projects is aimed at improving the e-government system, further developing the local market for software products and information technologies, creating IT parks in all regions of the republic, as well as providing the industry with qualified personnel. staff began.

In addition, a comprehensive program “Digital Tashkent” is being implemented, which provides for the launch of a geoportal integrated with more than 40 information systems, the creation of an information system for managing public transport and municipal infrastructure, and the digitalization of the social sphere. sphere, and the subsequent implementation of this experience in other regions.

1. In particular, the level of connection of settlements to the Internet will be increased from 78 percent to 95 percent by increasing the number of broadband connection ports to 2.5 million, building 20 thousand kilometers of fiber-optic communication lines, and developing mobile communication networks;

2. Formation of a unified database of local IT companies and manufacturers of software products, their products and services, as well as assistance to them in

promoting their products in the domestic and foreign markets;

3. Publication of information about planned projects for the implementation of information systems and other software products in government agencies and organizations;

4. In the process of solving practical issues of developing the digital economy in the country, as well as in the process of improving regulatory documents in the field of information technology, tasks have been developed to establish an effective and open dialogue.

Summary. In short, human capital is a critical factor for economic success in the digital age. Human capital plays an important role in human development, improving lives and incomes, increasing knowledge, skills and productive capacity, economic growth and poverty reduction. According to research, since human capital is an emerging topic in the field of human resources, it is of strategic importance and in organizations that are such, human capital increases. Companies that invest in their employees and encourage a culture of continuous learning are better able to adapt to technological change and remain competitive. Governments that prioritize human capital development are thriving in the fast-growing digital economy. When employees and individuals apply human capital to their jobs, they reap the rewards of the investment—salary, benefits, job satisfaction, and additional learning opportunities—all thanks to human capital.

List of used literature:

1. Abdullaevich A.O., Abdullazhanovich U.T. (2021, December). DEVELOPMENT OF SMALL BUSINESS AND PRIVATE ENTREPRENEURSHIP IN UZBEKISTAN. In the conference area (pp. 123-128).

2. Abdullaevich A.O., Abdullazhanovich U.T. Ibrogimov Sherzodbek Halimjon ogly (2021). In the book “Development of small business and private entrepreneurship in Uzbekistan.” Conference area (pp. 123-128).

3. Sirodzhiddinov I., Kholmiraev M., and Akhmadzhonova M. (2021). NEED AND FACTORS FOR ACCELERATING PRIVATE ENTERPRISE DEVELOPMENT.

4. Shestakova I. G. Human capital in the digital era // Scientific journal of NRU ITMO. Ser. Economics and environmental management. 2018. No. 1. P. 56-63.

5. Zaripova G.K. Spiritual and pedagogical role of self-education in the formation of general secondary schools students as perfect persons: Journal of new century innovations. Vol. 49 No. 1 (2024), Volume-49. Issue-1, 133-142. <https://www.newjournal.org>; <http://www.newjournal.org/index.php/new/issue/view/337>; https://scholar.google.com/scholar_url?url=http://www.newjournal.org/index.php/new/article/view/12315&hl=ru&sa=X&d=13700377225825864947&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeY81IU2g4d6b61RJnJCsQd&oi=scholaralrt&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaeBLEXpCnrB4TedFUI0syXIb&html=&pos=0&folt=cit&fols=

6. Zaripova G.K. Dars jarayonida va undan tashqari tadbirlarda o'quvchi shaxsini shakllanishida hamda uning kasb egallashida o'rta umumiy ta'lim maktabidagi tarbiyaning yetakchi ahamiyati: Vol. 42 No. 1 (2024): ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ | Выпуск журнала № 42 | Часть-1. 76-92.

https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/01/article/view/12326&hl=ru&sa=X&d=13592918638829847184&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeB2ncyTQaARMr4goepKrrff&oi=scholaralrt&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaeBLEXpCnrB4TedFUI0syXIb&html=&pos=2&folt=cit&fols=

7. Zaripova G.K. Madaniyatshunoslik yondashuvi asosida o'qituvchilar umumiy o'rta ta'lim maktabi o'quvchilarini ma'naviy-ma'rifiy tarbiyalash tizimida o'z-o'zini tarbiyalashni shakllantirishining ahamiyati: Vol. 42 No. 1 (2024): ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ | Выпуск журнала № 42 | Часть-1. 50-57.

[https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/01/article/view/12324&hl=ru&sa=X&d=11741118385377896405&ei=mab_Zeb2LY-](https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/01/article/view/12324&hl=ru&sa=X&d=11741118385377896405&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeYAgP8PeiLgFmNT9BSWSZy3&oi=scholaralrt&hist=1xFax7AAAAAJ:401037987834098197:AFWwaebLEXpCnrB4TedFUl0syXIb&html=&pos=3&folt=cit&fols=)

https://scholar.google.com/scholar_url?url=http://www.newjournal.org/index.php/01/article/view/12325&hl=ru&sa=X&d=9735756815312938566&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeY6jJDOR6zShfDr7G-lp5BC&oi=scholaralrt&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaebLEXpCnrB4TedFUl0syXIb&html=&pos=4&folt=cit&fols=

8. Зарипова Г.К. Духовно-педагогическая роль самообразования в формировании учащихся общих средних школ как совершенных человек: Vol. 42 No. 1 (2024): ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ | Выпуск журнала № 42 | Часть-1. 58-75.

https://scholar.google.com/scholar_url?url=http://www.newjournal.org/index.php/01/article/view/12325&hl=ru&sa=X&d=9735756815312938566&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeY6jJDOR6zShfDr7G-lp5BC&oi=scholaralrt&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaebLEXpCnrB4TedFUl0syXIb&html=&pos=4&folt=cit&fols=

9. Zaripova G.K. The leading importance of education in a secondary school in the formation of the student's personality during the lesson process and in events outside him and in his profession: Journal of new century innovations. Vol. 49 No. 1 (2024), Volume-49. Issue-1, 148-163.

https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/new/article/download/12317/11940&hl=ru&sa=X&d=11771490114323368116&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeQXWfIvncGSnZsvFNQYc8&oi=scholaralrt&hist=1xFax7AAAAAJ:401037987834098197:AFWwaebLEXpCnrB4TedFUl0syXIb&html=&pos=1&folt=cit&fols=

10. Zaripova G.K. Umumiy o'rta ta'lim maktablarida o'quvchi shaxsini shakllanishida pedagogik yondashish va uning kasb egallashida yetakchi ahamiyati: - Buxoro: "PEDAGOGIK MAHORAT" ilmiy-nazariy va metodik jurnal. 2023, № 9. 98-106- betlar. https://buxdu.uz/media/jumallar/pedagogik_mahorat_9_2023.pdf. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:_axFR9aDTf0C

11. Shafiyev T.R. Development of a mathematical model and an efficient computational algorithm for predicting atmospheric pollution in industrial regions. AIP Conference Proceedings, 2024.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:qxL8FJ1GzNcC

12. Shafiyev T.R. Masofaviy va elektron ta'limning modellari va nazariyasi: masofaviy va elektron ta'limning modellari va nazariyasi. (Buxdu. uz): Том 1 № 1, 42 tom (2020): Maqola va tezislar toplami. 2023.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:M3ejUd6NZC8C

13. Shadmanov, T. Shafiyev. Mathematical modeling of the processes of combined heat and moisture transfer during storage and drying of raw cotton. E3S Web of Conferences, 2023.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:Wp0gIr-vW9MC

14. T. Shafiev, S. Nazarov. Studies of the influence of vegetation cover on the process of transfer and diffusion of harmful substances in the atmosphere. E3S Web of Conferences, 2023.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:4T0pqqG69KYC

15. Shafiyev T.R. Technology And Relevance Of Creating An Electronic Training Course. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz), 2021.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:K1AtU1dfN6UC

16. Shafiyev T.R. Нелинейная математическая модель процесса переноса и диффузии вредных веществ в атмосфере с учетом переменной скорости частиц и орографии местности. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz), 2020.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=t6yS4uUAAAAJ&sortby=pubdate&citation_for_view=t6yS4uUAAAAJ:K1AtU1dfN6UC

[y=pubdate&citation_for_view=t6yS4uUAAAAJ:5nxA0vEk-isC](https://pubdate&citation_for_view=t6yS4uUAAAAJ:5nxA0vEk-isC)

17. Eshankulov H.I. Multi-agent tizimining business intelligence integratsiyasi uchun petri to'ri asosidagi modeli. DIGITAL TRANSFORMATION AND ARTIFICIAL . 90-99-bet. 2-tom. 2024.

https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:BqipwSGYUEgC

18. Eshankulov H.I. Business intelligence dasturlarini bulutga ko'chirish va bulutli hisoblashning asosiy vazifalari. DIGITAL TRANSFORMATION AND ARTIFICIAL INTELLIGENCE 1 (4), 1-7. 2023.

https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:YFjsv_pBGBYC

19. Eshankulov H.I., Zaripova G.K. va boshqalar. Mathematical model for information monitoring system of fat and oil enterprises. AIP Conference Proceedings 3004 (1). 2024.

https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:JV2RwH3_ST0C <https://doi.org/10.1063/5.0199923>.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:kh2fBNsKQNwC

20. Eshankulov H.I. Katta ma'lumotlar (Big Data) ni tahlil qilish usullari. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz), 2021.

https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:isC4tDSrTZIC

21. Eshankulov H.I. Ontologik yondashuv orqali integratsiyalash usullarining tahlili. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu.uz), 2021. 8 tom.

https://scholar.google.ru/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:bEWYMUwI8FkC

22. Eshankulov H.I. IDEF strukturaviy modellashtirish standartlari oilasi. Центр научных публикаций (buxdu.uz), 2021.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:r0BpntZqJG4C

23. Eshankulov H.I. Business intelligence dasturiy ta'minotlarning xususiyatlari va tuzilmasi. Digital transformation and artificial intelligence. 2023/10/23.3-son, 51-60.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:NMxIIDI6LWMC

24. Eshankulov H.I. Taqsimlangan Axborot Tizimlarning Arxitekturasi. Центр научных публикаций (buxdu.uz), 2021.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=vgUt64gAAAAJ&sortby=pubdate&citation_for_view=vGut64gAAAAJ:Qo2XoVZTnwC

25. Zaripova G.K. Informatika va axborot texnologiyalari fanini o'qitishda yangi pedagogik texnologiyalardan ta'lim tizimida foydalanish: "Fizika, matematika va informatika". – Toshkent. - 2014 y. – №3. – B.6-9.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:e_rmSamDkqQC

26. Зарипова Г.К. INTERNETдан фойдаланиш этикаси: "Халқ таълими". – Тошкент: 2006 й. – №1. – Б. 75-77.

https://scholar.google.com/vn/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:BwyfMAYsbu0C

27. Zaripova G.K. Informatika va axborot texnologiyalarining jamiyat taraqqiyotida o'rni va istiqbollari: "Fizika, matematika va informatika". – Toshkent. - 2012 y. – №4. – B.6-9.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:kz9GbA2Ns4gC

28. Зарипова Г.К. Ведущее значение образования в средней общеобразовательной школе в формировании личности учащегося в процессе урока и в событиях вне него и в его профессии: Journal of new century innovations. Vol. 49 No. 1 (2024), Volume-49. Issue-1, 161-184.

https://scholar.google.com/scholar_url?url=http://newjournal.org/index.php/new/article/download/12317/11940&hl=ru&sa=X&d=11771490114323368116&ei=mab_Zeb2LY-Sy9YP6ICD0Ak&scisig=AFWwaeaQXWfIvncCGSnZsvFNQYc8&oi=scholar&hist=1xFax7AAAAAJ:4401037987834098197:AFWwaebLEXPcNrB4TedFUl0syXlB&html=&pos=1&folt=cit&fols=

29. Зарипова Г.К. “Информатика ва ҳисоблаш техникаси асослари” фанини узлуксиз ўқитиш муаммолари: “Узлуксиз таълим”. – Тошкент: 2005 й. – № 6. – Б. 68-70.
https://scholar.google.com/vn/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:AvfA0Oy_GE0C

30. Zaripova G.K. Agarki bu insonni avliyo desak. . . : “Boshlang’ich ta’lim”. – Toshkent: 2006 y. – №1. – Б. 6-7.
https://scholar.google.com/vn/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:vbGhcppDI1QC

31. Zaripova G.K. Future specialists – spiritual and professional education of secondary school students – a need for the development of our independent country: Educational Research in Universal Sciences, 2(9), 97–105. Retrieved from <http://erus.uz/index.php/er/article/view/3872>.
http://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:VLnqNzywnoUC

32. Зарипова Г.К. Педагогический подход в формировании личности учащегося в общей средней школе и его значение лидера в получении профессии: VOLUME 2, SPECIAL ISSUE 10 SEPTEMBER 2023. ISSN: 2181-3515. 8-22-стр. https://t.me/Erus_uz Educational Research in Universal Sciences, 2(10), 8–22. Retrieved from <http://erus.uz/index.php/er/article/view/3794>.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:j8SEvjWINXcC

33. Zaripova G.K. Building the professional competence of globally competitive teachers in digital and information and communication technologies: Journal of Survey in Fisheries Sciences. 10(3S) 2254-2264. 2023. 2254-2264- pages. <https://sifisheriessciences.com/journal/index.php/journal/article/view/844/837>.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:-_dYPAW6P2MC

34. Zaripova G.K. Development of professional competence of specialists in the training of teachers in digital and information technologies in our society:- Buxoro: Pedagogik Mahorat. 2022. (maxsus son). 36-43- betlar.
http://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:PVjk1bu6vJQC

35. Zaripova G.K. In the continuous education system, upgrading and retraining of pedagogic personnel is the current demand. “ACADEMICIA: An International Multidisciplinary Research Journal”. ISSN: 2249-7137. Vol. 12, Issue 06, June 2022 SJIF 2022 = 8.252. A peer reviewed journal. – Page. 8. http://journal.buxdu.uz/index.php/journals_buxdu/article/view/7954/5040;
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:Tiz5es2fbqcC

36. Зарипова Г.К. Методы использования программами архиваторов в архивировании и резервировании информации: МЕЖДУНАРОДНЫЙ НАУЧНЫЙ ЖУРНАЛ «ИНТЕРНАУКА» №2 (24) /2017 1 т. 140-142-стр.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:9yKSN-GCB0IC

37. Зарипова Г.К. Обучения студентов компьютерным технологиям: Российская федерация. «Готовим урок». – Курск: – 2016 г. 30 июнь. Свидетельство о регистрации СМИ: ЭЛ № ФС 77 – 65563. http://gotovimurok.com/?page_id=28459Ж;
http://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:q3CdL3IzO_QC

38. Zaripova G.K. Internet tarmog;idan foydalanish ko’nikmalari va uning jamiyat rivojlanishidagi ahamiyati: “Maktab va hayot”. – Toshkent. 2015 y. – №7. – Б.24-26.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:HbR8gkJAVGIC

39. Zaripova G.K. Umumiy o'rta ta'lim o'quvchilarini komil shaxs sifatida shakllantirishda o'zi-o'zini tarbiyalashning ma'naviy-pedagogik o'rimi: "PEDAGOGIK AKMEOLOGIYA" xalqaro ilmiy-metodik jurnal «ПЕДАГОГИЧЕСКАЯ АКМЕОЛОГИЯ» международный научно-методический журнал "PEDAGOGICAL ACMEOLOGY" international scientific-methodical journal. №1(3) 2024. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:nrtMV_XWKgEC

40. Zaripova G.K. Umumiy o'rta ta'lim maktabi o'quvchilarining yosh va individual xususiyatlarini hisobga olish – ular tarbiyasi samaradorligini oshirishning muhim faktoridir: "TA'LIM VA INNOVATSION TADQIQOTLAR" "ОБРАЗОВАНИЕ И ИННОВАЦИОННЫЕ ИССЛЕДОВАНИЯ" "EDUCATION AND INNOVATIVE RESEARCH." ISSN 2181-1709 (P); ISSN 2181-1717 (E); SJIF: 3.805 (2021). 2024/1. 288-296-betlar.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:YohjEiUPhakC

41. Zaripova G.K. The Problem of Employment in the Digital Economy in the Government of the Russian Federation: Academic Journal of Digital Economics and Stability 2024, Volume 37, Issue 2, feb-2024, ISSN 2697-2212. 1-7. <https://economics.academicjournal.io/index.php/economics/article/view/885/847>, <https://economics.academicjournal.io/index.php/economics/>.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:rmuvC79q63oC

42. Тураева Х.Г. Google classroom – масофавий таълим олишнинг самарали воситаси. "Актуальные вопросы медицинского образования, современные и инновационные методы преподавания". Международная онлайн конференция // Ташкент. 2020.5.6. 111-113. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:8k81kl-MbHgC

43. To'rayeva H.G., Ruhilloeva L. O 'QUVCHILARGA DASTURLASHNI O 'RGATISHDA GEYMIFIKATSIYA ELEMENTLARIDAN FOYDALANISHNING TA 'LIMIY VOSITALARI //TA'LIM VA INNOVATSION TADQIQOTLAR. – 2022. – С. 127-131. <https://conf.sciencebox.uz/index.php/INNOVATSIYA/article/view/122>;

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:M3ejUd6NZC8C

44. Turayeva H.G. Ta'limni raqamli muhitga moslashtirish sharoitida axborot texnologiyelarni organishning zamonaviy usul va vositalari. ЦЕНТР НАУЧНЫХ ПУБЛИКАЦИЙ (buxdu. uz), 2021.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:4TOpqG69KYC

45. Тураева Х.Г. Google classroom – масофавий таълим олишнинг самарали воситаси. "Актуальные вопросы медицинского образования, современные и инновационные методы преподавания". Международная онлайн конференция // Ташкент. 2020.5.6. 111-113. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:8k81kl-MbHgC

46. Тураева Х.Г. Виртуальная электронная тетрадь как средство активизации познавательной деятельности ученика. БухДУ. "Инновация – модернизациянинг концептуал асоси". Республика илмий-амалий анжуман тўплами. 2016/12/24. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=c3eIKbIAAAAJ&citation_for_view=c3eIKbIAAAAJ:9yKSN-GCB0IC

47. Zaripova G.K., Norova F.F., Subxonqulov T. Building the professional competence of globally competitive teachers in digital and information and communication technologies. Journal of Survey in Fisheries Sciences. 10(3S) 2254-2264. 2023. 2254-2264- pages. <https://sifisheriessciences.com/journal/index.php/journal/article/view/844/837>.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:-dYPAW6P2MC

48. Norova F.F. MODELING IN SCIENCE. RAQAMLI IQTISODIYOT, ELEKTRON HUKUMAT VA SUN'IY INTELLEKT UCHUN DASTURIY VOSITALAR, AXBOROTLARNI

QAYTA ISHLASHNING ZAMONAVIY USULLARI. 2023/6/17. 168-170.
https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=aPtI2uUAAAAJ&sortby=pubdate&citation_for_view=aPtI2uUAAAAJ:ZeXyd9-uunAC

49. Norova F.F. Ta'limni dasturiy vostalari yordamida rivojlanturish. Miasto Przyszłości Kielce 2023. 2023/10/31.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=aPtI2uUAAAAJ&citation_for_view=aPtI2uUAAAAJ:qUcmZB5y_30C

50. Norova F.F. Software for the development of interactive tests for computer science. DEVELOPMENT SCENARIOS AND ALTERNATIVES IN THE MODERN SOCIETY, 108-110. 2023/4/15.

https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=aPtI2uUAAAAJ&citation_for_view=aPtI2uUAAAAJ:L8Ckcad2t8MC

51. Зарипова Г.К. Духовно-педагогическая роль самовоспитания в формировании учащихся общих средних школ как совершенных личностей: - Бухоро: "PEDAGOGIK MAHORAT" ilmiy-nazariy va metodik jurnal. 2023, № 13. 161-169- betlar. https://buxdu.uz/media/jumallar/pedagogik_mahorat_10_2023.pdf. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:86PQX7AUzd4C

52. Зарипова Г.К. Миллий меросимиздаги педагогик технологияга оид ғоялардан фойдаланиш: "Узлуксиз таълим". –Тошкент: 2005 й. –№ 1. – Б. 35-40. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:URoIC5Kub84C

53. Zaripova G.K. Masofaviy ta'lim tizimida ilg'or pedagogik texnologiyalardan foydalanish usullari: "Fizika, matematika va informatika". – Toshkent. 2014 y. – №5. – B.114-118. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:SpbeaW3-B0C

54. Zaripova G.K. The leading importance of education in a secondary school in the formation of the student's personality during the lesson process and in events outside him and in his profession. Journal of new century innovations 49 (1), 148-163. https://scholar.google.com/citations?view_op=view_citation&hl=ru&user=1xFax7AAAAAJ&cstar_t=20&pagesize=80&sortby=pubdate&citation_for_view=1xFax7AAAAAJ:umqfdrvDiIC