



DIGITAL TECHNOLOGY AND ITS CAPABILITIES IN THE HIGHER EDUCATION SYSTEM

Journal Website:
<https://theusajournals.com/index.php/ijmef>

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Submission Date: February 01, 2024, Accepted Date: February 06, 2024,

Published Date: February 12, 2024

Crossref doi: <https://doi.org/10.37547/ijmef/Volume04Issue02-05>

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ABSTRACT

Modern education has its own requirements, among which the most important are the widespread use of digital technologies and artificial intelligence in the higher education system and training in accordance with the requirements of the time. The article provides information and information about the history, reasons, opportunities and consequences of the introduction of digital technologies into the higher education system.

KEYWORDS

Higher education, digital technologies, nano, artificial intelligence, digitalization, educational technologies, digital pedagogy, hemis, human capital.

INTRODUCTION

Man and humanity have sought to create a Let for themselves in all ages and have overcome various obstacles and hardships along the way. Thanks to this, to this day - the development of Science and thought, self-centered development and opportunities, have set foot in a wide society. As if the progress of today's science provides humanity with endless opportunities. Artificial intelligence is becoming the main factor

affecting the development of various spheres of our life. These technologies have the potential to generate enormous benefits, from improving productivity and efficiency to advances in science and innovation. For the academic year 2022-2023, a total of 245 (231 Bachelor's, 14 master's) quotas were allocated in 6 higher education institutions for the training of personnel in the direction of "artificial intelligence".

The Higher Attestation Commission has opened the “digital technology and artificial intelligence” line in doktorantura, and since 2022, 5 quotas have been allocated for doctoral studies in the field of artificial intelligence and a target quota for independent researchers.

In order to improve the position of the Republic of Uzbekistan in the index of readiness for artificial intelligence of the government, a study of foreign experience was carried out.

According to statistics in the Government Artificial Intelligence Readiness Index, developed by Oxford Insights UK, it was ranked 158th in 2019, 95th in 2020, 93rd in 2021 and 79th in 2022.

On October 9, 2019, the president of the Republic of Uzbekistan issued a decree “on approval of the concept of development of the higher education system of the Republic of Uzbekistan until 2030”; [7]

On March 17, 2020, the decision of our president “on the broad current measures of digital technologies in Tashkent” PQ-4642;

On October 05, 2020, the adoption of the decree of the president of the Republic of Uzbekistan on measures to approve the strategy of “digital Uzbekistan-2030” and its effective implementation means how much work in this regard plays a role for the development of the state and society.

The organization of educational processes in accordance with the requirements of the period and the future of personnel being prepared in the higher

education system, with special attention to these trends, is a requirement of the integrating world.

LITERATURE REVIEW

Scientific research has been carried out on the development of the system in higher education, raising its effectiveness to the level of modern requirements, involving modern akhbarot technologies in the educational process, and at the same time the effective use of recent scientific achievements in higher education in the training of educated and professionally qualified personnel according to the requirements of the period using world experience. In Particular, Academician S.S.Gulomov, associate professor M. Abdullayev opportunities, achievements, tasks and advantages of the system were scientifically covered and taxed by in this regard. Giving an understanding of the term artificial intelligence, it is given by the doctor of Economic Sciences, professor T.Teshabayev as well as academician S.It was described by Gulyamov as: “the ability of the system to analyze and interpret external data, to learn independently and to use the knowledge gained to solve the problems posed ” [3].

Also, an attempt was made to cover the topic, summarizing the field data of scientists from foreign countries: Laura M.Stekman, Editor - ” Examining Internet and technology around the world ” USA 2021.[4].

From scientists of Uzbekistan, the theoretical and practical problems of the effective application of

innovative activities in improving the quality of the educational system. Researched in the works and marolas of K.X.Abduraxmonov, L.V.Peregudov, M.X.Saidov, A.N.Aripov and others.

DISCUSSION AND RESULTS

As a result of the scientific and technical revolution and a significant increase in income, the post-industrialized society in which we live today, there is a certain transition from the production of premium products to the production of “services”, and this is expected to significantly rivogize in the next 5-10 years. This process is also reflected in the system of various spheres of society. Therefore, it is indisputable that this achievement of the modern world is widely and efficiently used in the development of Science and the upgrade of the educational system, which also serves a significant development in this system.

Artificial intellect (SI English artificate intellegense, AI) is a field of Science and technology aimed at creating machines capable of imitating human intellect [10].

Examples of artificial intellect technologies that are widely used today are smart web search engines: Google Search; Image Systems-You Tube, Amazon, Netflix; understanding natural language-Google Assisent, Siri, Alexa; self-guided automakers-Waymo, among others. Alan Turing was the author of the first studies carried out in the field of artificial intrlect, and in 1956 the foundation slogan for science as an independent field.At a convention at Dartmouth College in the summer of that year, Jonh McCarthy first

coined the term artificial intellect, and has remained in history as the author of this term. While research on artificial intelligence has been done since the mid-20th century, public interest in it has increased dramatically in the 21st century.Since the beginning of the 2020s, this field has developed, and its achievements have become widely used in various fields.

The fact that digital technologies are developing at an unprecedented pace leads to fundamental changes in both society and higher education. In this regard, the International Association of universities (IAU) has set the study of the problems of the introduction and development of digital technologies in the higher education system as the main priority. The mastery of digital technologies in the educational system of developed foreign countries opens up new prospects for raising the quality of training to a new level, increasing the competitiveness of the trained personnel, and the effective development of human capital. The countries that have been leading higher education Dance: The Netherlands, Singapore, Japan and other countries like this have been able to provide quality education services through educational platforms and have the opportunity to occupy high positions in the world ranking through the competitive nature of digital technologies.

Human capital is the most valuable resource of modern society. The Republic has a population of more than 36 million, of which 18 million (more than 60 percent) are young people under the age of 30. According to

preliminary forecasts, the population of Uzbekistan will increase by 40 million people by 2030, and if this trend continues, young people will make up 24 million of them. In addition, the president set the task of transforming Uzbekistan into a regional IT center. In this regard, great attention is paid to the wide involvement of young people in the field of IT education. In the last five years, the number of higher education institutions has reached 160, and according to the concept of development of the higher education system of the Republic of Uzbekistan until 2030, this number will be increased to 200. The unified integrated electronic system (HEMIS) was created within the framework of the World Bank project, as well as created. It includes a database of all students in the Republic (including private and international universities), their attendance and results, as well as country teachers, electronic resources, curricula, educational content, etc.

The greatest achievement of digital technologies is the opportunity to dramatically increase economic efficiency by saving organizational, financial and human expenses.

CONCLUSION

In conclusion, we will say that artificial intelligence today has entered various fields and serves its development. Its scope of opportunity is expanding as a result of technological research. Based on the data studied and recorded in the postindustrial world, the development of innovative technologies and its role

and importance in the development of states is increasing today, the connection and reflection of its development in some way with educational processes serves as the basis for future development. In this regard, it is a clear fact that higher education also has an important meaning and importance. Therefore, the introduction of digital technologies into various spheres and at the same time into the higher education system, the modernization of the educational system and the formation of the culture, skills of the use of digital technologies in the younger generation serve to increase the effectiveness of education, and at the same time to the well-being, prosperity of society and the state. As the role of artificial intelligence in today's modern world grows more and more, more powerful scientific achievements will be made on its beneficial properties for the future of mankind, and it will serve the well-being of mankind, the prosperity of science.

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