Harmonious personality development in the context of digital educational platforms

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Abstract. Due to the pandemic, the society has appreciated high technology, which has provided invaluable assistance in the smooth training of personnel. The demand for high-quality, inclusive, accessible digital education has been formulated in all European countries as well as in Russia. Priorities were identified in the creation of a digital educational ecosystem and the formation of digital skills of ecosystem participants for successful digital transformation. In the modern literature one can find the arguments in favor of the presence of a positive or negative relationship between learning in the conditions of digital educational platforms and the formation of the personality of students. Based on the stated views of the personality development in a digital environment, in this study we understand a harmoniously developed personality as a person who is ready to integrate into the world and national culture, who has digital competencies and is aware of responsibility for his professional behavior, as well as striving for self-realization in the modern digital professional space. A system of a harmoniously developed personality formation in the digital educational platform has been developed.

1 Introduction

Education is the key to the global integrated framework of the sustainable development goals. A quality basic education is a necessary foundation for lifelong learning in a complex and rapidly changing world [1].

In the face of the pandemic [2], the society has appreciated high technology, which has provided invaluable assistance in the smooth training of personnel. The demand for high-quality, inclusive, accessible digital education has been formulated in all European countries and in Russia. Priorities were identified in the creation of a digital educational ecosystem and the formation of digital skills of ecosystem participants for successful digital transformation.

However, despite the socio-economic order of society in the formation of modern personnel of the new digital generation, there are a number of contradictions that hinder the implementation of this process.

In the current situation, there is a need for a qualitative transformation of the system of training modern personnel aimed at implementing integration in the global and national space on the basis of new moral and ethical requirements and possess digital competencies.

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1.1 Related Work

One can find the arguments in favor of the relationship between digital educational platforms and the formation of students' personality. The former, when used correctly, can improve academic performance; provide access to educational information almost anywhere [3]. Moreover, learning chats in the platforms can facilitate the rapid exchange of necessary information, among students [4] as well as the teacher that leads to more effective learning and collaboration [5].

1.2 Purpose of the Study

The aim of this research is to work out the way to develop harmonious personality via using the digital education platforms and to find out the conditions for the operation of this process successfully. Thus, there are the following tasks.

1. To provide different views on digital education platforms.
2. To find out the factors of successful education.
3. To find out the conditions for the development of harmonious personality in new digital successfully.
4. To work out the system of harmonious personality development

2 Background

No one can ignore the role that technology plays in the academic life of students. Digital platforms have become part of everyday educational life. This technological revolution has a great impact on the learning process of students. In the new digital reality [6], the phenomenon of a harmoniously developed personality acquires new characteristics based on the features of digital perception of information and on the possibilities of applying new digital knowledge.

2.1 Harmonious Personality Phenomenon

The new vision of learning activities focuses on the interrelation of thinking skills of upper order, groupings of mixed capabilities and moral principles[7].The process of acquiring knowledge becomes more meaningful, and most students enjoy working in the digital platform [8]. In the digital environment, it becomes possible to implement an individualized creative approach to each student [9].

Based on the stated aspects of modern student personality in a digital environment, we understand a harmoniously developed personality as a person who is ready to integrate into the world and national culture, who has digital competencies and is aware of responsibility for his professional behavior, as well as striving for self-realization in the modern digital professional space.

2.2 Factors of Successful Education

Education in modern conditions must correspond to the tasks of socio-economic level of society. Based on the experience of foreign and domestic colleagues, we have grouped the factors of successful learning in the conditions of digital educational platforms based on the following criteria: organizational, didactic, and socially-oriented.

Organizational factors include:

- visualization of abstract information through dynamic representation of processes;
  - the ability to simulate complex, dangerous experiments in the framework of an educational program in certain areas of training, which is difficult or impossible to conduct in a university environment;
  - formation of information search skills with its subsequent application;
- Didactic factors can be considered:
- stimulating the cognitive aspects of learning in the process of perception and awareness of information;
  - increase the concentration of attention in the process of working in a digital environment, as opposed to a standard lecture;
  - increasing the effectiveness of evaluating learning outcomes;
  - leveling the subjective assessment;
  - require more in-depth knowledge of the subject;
  - logic development
- Socially-directed factors are expressed in:
- accessibility of education to all categories of the population;
  - creating conditions for the interpretation of educational material in a broad socio-historical context;
  - opportunities for professional growth and retraining throughout life;
  - formation of skills of joint work and organization of the process of collective cognition;
  - formation of responsible behavior for their own actions in the network;
  - self-realization in the modern digital space.

2.3 The Analysis of Digital Education Platform Implementation

Within the framework of the research, the level of higher education institutions financing in the Sverdlovsk region, Chelyabinsk and Tyumen regions was analyzed [Fig. 1]. According to the data of the Sverdlovsk region, including the period from 2013-2017, a decrease in the level of financing is noted, starting from 2014 by 4% in 2015 and by 7.8% in 2015. These figures indicate the problem of equipping higher schools with the necessary technological resources.

Further, the degree of equipment of the higher school with computers was analyzed [Fig. 2]. As shown in the diagram, the level of reduction in funding was reflected in the technical staffing of classrooms. Since 2014, the number of computers has decreased, and the number of computers with Internet access throughout the study period is noticeably lower.

It should be noted that the process of working in a digital educational platform requires 100% technical equipment of classrooms with constant software updates. Today, this issue presents a certain problem [10].

Fig. 1. The Volume of Financing High Schools

Fig. 2. The Number of Computers for Learning Purposes in High Schools of Sverdlovsk Region [11]

3 The System of Harmonious Personality Development

Taking into account the theoretical provisions and statistical data on financing issues, the authors worked out the system for the harmoniously personality development in the digital educational environment [Fig.3].

Fig. 3. The System of Harmonious Personality Development within the Digital Education Platforms

This system reflects the best pedagogical traditions of forming a harmoniously developed personality, introducing into this process new success factors caused by the conditions of the digital environment. The system will work more effectively if the conditions are met at the state, economic and pedagogical level.

4 Conclusion

Today, society is undergoing profound transformations that require new forms of skills development that are necessary for society and the economy. As a result, there is a strive for new visions on learning in order to create justice, social equality and global solidarity. It should be about cultural literacy, based on respect and equal dignity, which helps to combine the social, economic and environment levels of sustainable development. The system of forming a harmoniously developed personality worked out by the authors meets the new challenges of the digital economy and contributes to the training of digital personnel for the regions.

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