

Volume 02, Issue 05, 2024 ISSN (E): 2994-9521

# Development and Optimization of Independent Learning Technologies in Improving the Professional Competence of Future Fine Arts Teachers

# Haydarova Mayra Ergashovna 1

<sup>1</sup> Shahrisabz State Pedagogical Institute is a teacher of the Department of Art Studies

## **Annotation:**

Nowadays, innovations and technologies are developing rapidly in the field of education. This expands the possibilities of using independent educational technologies in the educational process. In particular, for visual arts teachers, these technologies are important in improving their professional competence. This article discusses independent learning technologies and their impact on the development of professional competence of visual arts teachers. Opinions about the use of the most optimal innovative technology elements and their importance in increasing professional competence through the development of independent educational technologies are presented.

**Keywords:** Competence, optimal, creativity, thinking, education, skill, development, technology, practical work, visual arts, application, innovation, resource.

#### **Enter**

Today, new approaches and innovations are important in the field of education. In particular, the role of independent educational technologies in improving the professional competence of visual arts teachers is significantly increasing. New technologies make the educational process more interactive and collaborative. At the same time, opportunities for visual arts teachers to improve their skills independently, leaving traditional educational methods, are expanding.

Fine art education includes not only the creation and study of works of art, but also the formation of aesthetic values, the development of creative thinking, and the understanding of cultural heritage. It is important to improve the competence of teachers in this area, because they need not only to have technical knowledge, but also to involve students in the creative process and inspire them. UNESCO. (2011). ICT in Education. In this report, there are international standards and recommendations on the use of technology in education. In the concept of the development of the higher education system of the Republic of Uzbekistan until 2030, it is precisely to increase the number of hours of independent education, to teach students to think critically and creatively, to use advanced educational technologies in the process of independent education, and to have their own specialties. measures to increase competence are described in detail.

In response to this decree, many scientists and researchers conducting research in the field of education in our country are conducting many scientific works on the problems of increasing professional competence; Botir Boltabayevich Baymetov, Khusan Kholmuratovich, Makhkamova, S. B. Nurtayev U, S. Abdirasilov, N. Tolipov, passionate teachers of the field of fine arts, have been carrying out extensive research on measures to improve the competence of the fine arts teacher in specialized subjects. Among them, there are also studies on independent education, and it is not enough for today's demand to work on the effective use of independent education technologies and its development.

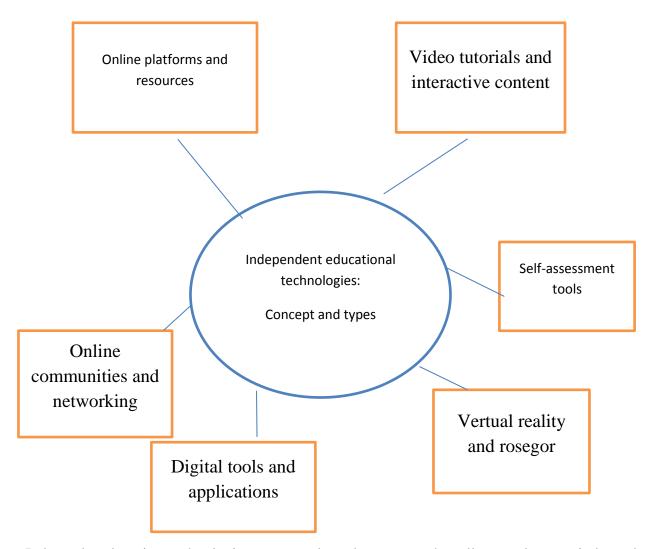
Independent learning technologies, including online resources, interactive platforms, and digital tools, provide visual arts teachers with ample opportunities to further their knowledge and skills. They can learn new techniques independently, collaborate with other teachers and experts, and use various tools for self-evaluation and development of their competence.

In addition to being a tool for skill development, these technologies also allow for the improvement of various aspects of visual arts education. For example, new technologies facilitate the study of art history, cultural identities, and creative means of expression. All this is one of the important factors in improving the professional competence of visual arts teachers. The article examines the role of independent learning technologies in improving the professional competence of visual arts teachers and how such technologies can be optimized. This study serves as a guide to visual arts teachers on how to develop the educational process and adapt to modern requirements.

#### **Independent Learning Technologies**

Independent learning technologies are technologies aimed at self-management of students in the educational process and creation of their own independent learning paths. These include online courses, video tutorials, interactive projects, and self-assessment tools. Through these technologies, students can expand their knowledge outside of the classroom.

Independent Learning Technologies: Concept and Types



Independent learning technologies mean tools and resources that allow students to independently develop their knowledge in the educational process. These technologies create opportunities for interaction and learning between teachers and students outside of the traditional classroom environment. Independent learning technologies include the following main elements:

#### Online Platforms and Resources

Educational platforms and resources available on the Internet are the most basic tools for independent learning. These platforms provide courses at different levels and on different topics. For example, platforms like Khan Academy, Coursera, edX, Udemy, and Skillshare offer many courses related to visual arts. These courses allow teachers to learn new techniques and ideas.

## Video Lessons and Interactive Content

Video lessons allow students and teachers to see and experience the practical side of education. This is especially important in the field of visual arts, as the skills and techniques required in this field are to be seen visually. Platforms such as YouTube and Vimeo have visual art video lessons that teachers can use to improve their skills on their own.

Online Communities and Networking

Independent learning technologies allow teachers to share experiences with other industry experts and colleagues through online communities and networks. Social networks such as Facebook, LinkedIn, and Reddit have groups and communities related to visual arts. Through this, teachers can exchange ideas and gain new knowledge.

# **Digital Tools and Applications**

Digital tools and apps are another important element for independent learning. In the field of visual arts, programs such as Adobe Creative Suite (such as Photoshop, Illustrator, and InDesign), Procreate, and CorelDRAW help teachers improve their creative skills. With these tools, teachers can learn new technologies and innovate their lessons.

Virtual Reality and Augmented Reality (AR/VR)

Virtual reality (VR) and augmented reality (AR) technologies are creating new opportunities in the field of visual arts. With VR, teachers and students can travel to virtual museums and art galleries, and AR can make lessons more interactive and entertaining.

#### **Self-Assessment Tools**

Self-assessment is important in the process of independent learning. Teachers can assess their knowledge and skills with a variety of online tests and self-assessment tools. This will help identify their strengths and weaknesses and determine their direction.

Independent educational technologies play an important role in improving the professional competence of visual arts teachers. With the help of these technologies, teachers can not only expand their knowledge independently, but also share experience with other teachers and specialists. Through digital tools, online platforms, and interactive content, art teachers can take their skills to new levels.

Independent educational technologies provide a number of opportunities to improve the professional competence of visual arts teachers:

Keeping Up with the News: Through independent learning tools, teachers can learn about the latest news and new methods. For example, through online galleries or virtual tours, one can see and learn about the world's most famous works of art.

Learning New Skills: Teachers can use video lessons and interactive materials to learn new techniques in the visual arts. This helps them to use different methods in their lessons.

Experience Sharing: Through online platforms, visual arts teachers can share their experiences with each other. Through this process, they expand their professional knowledge and stay up-to-date.

Self-Assessment: Independent learning technologies allow teachers to assess their own knowledge and skills. For example, one can test their knowledge through interactive tests or projects.

#### **Optimization Methods**

To optimize independent learning technologies, it is recommended to use the following methods:

Convenient Platforms: Convenient and easy-to-use platforms should be provided for teachers. These platforms should contain various educational materials, video and audio lessons, and interactive projects.

Initiative Support: Visual arts teachers should be encouraged to use independent learning tools. For this, incentive programs and events can be held.

Teachers' Independence: Support systems need to be created to develop teachers' ability to work independently. Through this, teachers tend to improve their knowledge independently.

Examples of optimization of independent learning technologies

Optimizing independent learning technologies for visual arts teachers is important in improving their professional competence. For this, it is necessary to use effective strategies and technologies. Here are some examples of optimization:

## 1. Self-Management and Flexibility

Visual arts teachers should be provided with platforms and tools that allow for flexible and self-directed independent learning. For example, online learning platforms such as Udemy, Coursera, or Skillshare allow teachers to view lessons and complete exercises at any time according to their schedule. This is one of the main factors of optimizing independent education.

#### 2. Content in Different Formats

Content presented in a variety of formats allows visual arts teachers to choose their own teaching methods. For example, video lessons available on platforms such as YouTube and Vimeo, interactive materials on online learning platforms such as Canvas or Blackboard, and digital tools such as Adobe Creative Cloud or Procreate provide a variety of learning methods. The diversity of these formats helps to optimize independent learning.

#### 3. Online Communities and Collaboration

It is important to provide visual arts educators with online communities and collaboration opportunities to optimize independent learning technologies. For example, through visual art groups and communities on social networks such as Facebook and LinkedIn, teachers can share experiences with other colleagues and discuss new techniques and methods. This introduces teachers to new ideas and improves their skills.

# 4. Interactive and Practical Training

Interactive and practical training is effective in improving the competence of visual arts teachers. For example, they can put their skills to the test by having live interactive lessons with teachers on platforms like Zoom or Microsoft Teams. Also, with the help of virtual reality (VR) and mixed reality (AR) tools, teachers can visit virtual museums and art galleries, which will enrich their knowledge.

#### 5. Self-Assessment and Competitiveness

To optimize independent learning technologies, it is recommended to add elements of self-assessment and competitiveness. For example, by organizing tests and quizzes on platforms like Quizlet or Kahoot, teachers can test their knowledge and compare their results with other teachers. It increases competitiveness and motivation.

As we aim to increase the professional competence of the future art teacher through independent educational technologies, I believe that the use of the most appropriate and convenient educational technology elements for students will definitely have a good effect. We found it permissible to give an example of an innovative technology program organized according to the colors of the image. The innovative game program can be a useful tool for identifying colors and learning color science. That is, we will see what an innovative game program for determining color shades related to color science can look like. This concept aims to provide a fun and interactive experience in working with colors

Program Concept: "Color Generation"

Name: "Color Generation"

Purpose: An innovative and interactive game program for understanding colors, classifying them and creating color combinations.

Intended Audience: Art teachers, art students, designers, and anyone interested in color.

Key Features of the Program

## Color Matching Game

The game challenges participants to identify different colors and their hues. This game has different levels of complexity, going from simple colors to complex color combinations.

#### **Color Cards**

Color cards for learning colors and their hues. Participants can learn different colors and their names. Color cards may also contain technical information such as RGB and HEX codes.

#### Color Combination Creator

The program allows participants to create their own color combinations. By choosing colors, they can try different designs and color schemes. This feature helps in developing color science skills.

## **Color Harmony Tests**

The game includes tests based on Color Harmony, where participants can check colors and their compatibility. These tests cover adding colors and identifying their corresponding colors.

#### Game Collaboration and Evaluation

In the program, participants can evaluate their results and compete with other participants. By assessing speed and accuracy in identifying and classifying colors, the game is fun and engaging.

## Online Community and Resources on Color

The program provides participants with access to an online community and additional color science resources. Through this, they can exchange ideas with other participants, learn new color combinations and share their work.

The innovative game program "Rang Avlodi" can be useful in developing the skills of color science and working with colors. Through the game, participants will be able to identify, classify and create color combinations. This game is a fun and interactive educational tool for art teachers and art students, making it easy to learn new knowledge about color.

Result: The results of independent learning based on optimized educational technologies can have several positive effects. This learning approach makes student learning flexible and personalized, leading to more engaged students and effective learning. The following results can be expected from independent training based on optimized educational technologies:

## 1. Flexibility and Self-Control

Independent learning technologies allow students to manage their time and adjust their learning pace. This, in turn, increases students' independent learning and self-control skills.

## 2. Personalized Learning Experience

Optimized learning technologies allow students to choose learning paths based on their interests and needs. This personalized learning experience makes students more engaged and engaged in the learning process.

#### 3. Enhanced Learning Resources

Optimized learning technologies provide access to a wide range of resources. Students will be able to find the resources they need, while also having the opportunity to explore a variety of topics in depth.

#### 4. Self-Assessment and Feedback

Through independent learning technologies, students have the opportunity to assess their progress and receive continuous feedback. This is important for them to identify and improve their own development paths.

## 5. Self-development

Through independent learning, students have the opportunity to develop their abilities and skills. This will help them gain more confidence and success.

#### 6. Team and Individual Work

With the help of optimized educational technologies, students will have the opportunity to work on collective and individual projects. This encourages cooperation and learning from each other.

## 7. Development of Technological Skills

Using independent learning technologies helps students develop technological skills. They will learn to work with various applications, platforms and tools, which will serve to improve their professional competence.

These results show how self-directed learning based on optimized learning technologies can be beneficial. This approach allows students to manage their learning process and improve their professional competence.

## Importance

For visual arts teachers, independent learning technologies offer a number of advantages. First, these technologies allow teachers to use their time effectively and expand their knowledge anytime and anywhere. Second, they develop their skills in ways that are convenient and interesting for them.

In the field of visual arts, teachers must learn new techniques and methods, follow modern art trends, and share experiences with other teachers. Independent learning technologies are an effective tool for doing this, they expand the creativity of teachers and make lessons more interesting and interactive.

Optimizing independent learning technologies can help visual arts teachers become more effective in improving their competence. For this, key elements such as self-management, content in different formats, online communities, and interactive and hands-on activities should be provided. Such optimization strategies allow teachers to get the most out of independent learning. In the future, there is an opportunity to further develop independent learning technologies and create new opportunities for visual arts teachers. Virtual and mixed reality, artificial intelligence and other advanced technologies can bring new approaches to visual arts education. This will help expand the knowledge of teachers and students and enrich the creative process.

General support and assistance is needed for visual arts teachers to effectively use independent learning technologies. Educational organizations, educational platforms and government bodies need to make independent learning more accessible by providing support and resources to teachers. As a result, art teachers can improve their competence and bring the educational process to a new level.

Independent educational technologies have great potential in improving the professional competence of visual arts teachers. The approaches and examples discussed in this article offer effective strategies for teachers to develop their knowledge and skills. By properly optimizing technologies, visual arts education can be taken to a new level, which will have a positive impact on the entire education sector.

## Summary

Optimization of independent educational technologies helps to increase the professional competence of visual arts teachers. As these examples show, flexible learning platforms, content in different formats, online communities, and interactive activities can make independent learning more effective and fun. The elements of self-evaluation and competitiveness increase the motivation of teachers and motivate them to develop their skills. Independent educational technologies are one of the important tools for improving the professional competence of visual arts teachers. With the help of these technologies, teachers can learn new knowledge and skills, share experiences and self-evaluate. The optimization methods presented in this article help to increase the efficiency of independent learning technologies. Independent educational technologies play a very important role in improving the professional competence of visual arts teachers. Modern educational processes require flexibility, innovative approaches and high level of professional competence from teachers. Independent learning technologies are a powerful tool in meeting these demands.

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