

## **Methodology of Planning Integrated Lessons Using Electronic Educational Resources**

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**Abstract.** *The article analyzes the methodology of planning integrated lessons using electronic educational resources. It examines the possibilities of organizing the learning process effectively, ensuring students' active participation, and facilitating interactive learning activities. Methods for individualizing lessons and enhancing pedagogical efficiency are also presented. The recommendations are particularly useful for students studying primary education and for teachers as a practical guide.*

**Key words:** *Electronic educational resources, integrated lessons, methodology, interactive learning activities, pedagogical planning, individualization, primary education*

### **Introduction**

In the education system of the 21st century, the rapid development of information and communication technologies has created the basis for the formation of an electronic learning environment. Electronic learning resources (E-learning) make it possible to organize students' learning process in an interactive, individualized, and effective manner. At the same time, they enable the integration of different disciplines and make it possible to plan and implement integrated learning activities[1].

The President of the Republic of Uzbekistan, Shavkat Mirziyoyev, in his speeches has identified enriching education with modern technologies and digitalization as a priority task and has called on educators to organize effective lessons through innovative approaches[2]. According to the President, the use of electronic learning resources not only improves the quality of the learning process but also contributes to the development of the professional and personal competencies of the younger generation[3].

An integrated lesson is an activity aimed at combining knowledge obtained from different disciplines in order to comprehensively develop a student's knowledge, skills, and professional competencies[4].

From a psychological perspective, an integrated lesson:

- develops the student's independent thinking and analytical abilities;
- connects theoretical knowledge with practice;
- increases professional preparation and motivation.

From a pedagogical perspective, integrated lessons create interdisciplinary connections and provide opportunities to develop students' comprehensive knowledge and skill[5].

Electronic learning resources increase students' activity in the learning process and provide the following opportunities:

- Interactive learning materials: videos, animations, 3D models, infographics;
- Online tests and assessment systems: determining the level of knowledge and encouraging independent learning;
- Virtual laboratories and simulations: developing practical skills;

- Forums and discussion platforms: forming group work skills and social competencies[6].

## **Methodology.**

At the same time, electronic learning resources are considered an important tool in increasing students' motivation and internal aspiration.

Education in the 21st century requires the effective implementation of information and communication technologies (ICT) in global education systems[7]. In higher education institutions, particularly for 3rd-year students of the Primary Education program, integrating the course "Informatics in Primary Classes and Its Teaching Methodology" with electronic learning tools is an important means of improving the quality of the pedagogical process, ensuring an interactive and individual approach, and enriching students with professional competencies[8].

Result and discussion.

In the process of planning a lesson, the first step is to determine the learning objectives and define the tasks aimed at developing students' knowledge, skills, and competencies. At this stage, electronic learning resources create opportunities to integrate materials obtained from various disciplines. As a result, students' theoretical knowledge, practical skills, and metacognitive competencies develop harmoniously[9].

In organizing the lesson, the following methodological approaches are recommended:

- Interactive methods: encouraging students' activities through virtual laboratories, simulations, and online projects;
- Reflective methods: strengthening students' self-development skills through electronic portfolios, self-assessment, and analytical mechanisms;
- Differential and individual approach: organizing lessons adapted to students' levels of knowledge and learning needs with the help of electronic platforms;
- Automated and adaptive assessment systems: enabling the monitoring of lesson effectiveness in real time and providing systematic control over students' development[10].

Stages of planning integrated lessons:

1. Analysis stage:

- Diagnostic assessment of the student's level of knowledge, skills, and competencies;
- Pedagogical analysis related to interdisciplinary connections and the structure of the lesson content;
- Determining the student's ICT skills and learning motivation[11].

2. Planning stage:

- Clearly defining the objectives and tasks of the lesson;
- Selecting electronic resources, interactive, and multimedia elements;
- Developing projects and tasks that encourage the student's independent work.

3. Lesson organization stage:

- Integrating online lessons, seminars, group work, and simulations;
- Introducing reflective and self-assessment methods;
- Developing the student's practical competencies through virtual laboratories, simulations, and multimedia tools[12].

4. Assessment and analysis stage:

- Assessing the student's knowledge and skills through electronic platforms;
- Analyzing the effectiveness of the lesson based on pedagogical indicators;
- Summarizing learning outcomes, identifying shortcomings, and determining measures for methodological improvement[13].

The integration of electronic learning resources into integrated lessons allows for the diversification of pedagogical approaches, that is, organizing the learning process in different methods and forms

according to students' needs, levels of knowledge, and abilities; making the learning process interactive and differential; and developing students' metacognitive competencies. At the same time, through the formation of self-assessment and reflective activity skills among students, systematic control over the quality of the learning process is ensured.

The lessons conducted based on this methodology showed that:

- students' theoretical knowledge and practical skills increased significantly;
- students' active participation in interactive lessons and their independent working skills improved;
- students' self-development skills were strengthened through the use of electronic portfolios and reflective assessment tools;
- the effectiveness of the lessons was systematically monitored and analyzed through the electronic assessment system.

The results showed that integrating lessons with electronic learning tools in higher education institutions has strategic importance in improving the quality of the pedagogical process, developing students' individual capabilities, and forming modern professional competencies[14].

The methodology of planning integrated lessons using electronic learning resources increases the effectiveness of the modern education system.

- it enables students to independently develop their knowledge and skills;
- professional competencies are developed through interactive and reflective methods;
- interdisciplinary integration harmonizes students' theoretical knowledge with practical skills;
- electronic learning platforms ensure that lessons are individual, flexible, and effective[15].

## **Conclusion.**

The use of electronic learning resources serves as an important tool for improving the quality of education and developing students' professional potential. Integrating lessons with electronic learning tools in higher education institutions makes it possible to improve the quality of the pedagogical process, organize students' activities in an interactive and individual manner, and harmoniously develop their theoretical and practical knowledge. Integrated lessons enrich students with professional competencies, develop their metacognitive skills, and prepare them for future professional activity. At the same time, electronic assessment systems create opportunities to systematically monitor students' development and evaluate the effectiveness of lessons. The views of President Shavkat Mirziyoyev on digitalizing education and introducing innovative approaches confirm the strategic and practical significance of this approach.

Integrating lessons with electronic learning tools in higher education institutions makes it possible to organize the pedagogical process effectively and to develop students' activities in an interactive and individual manner. Therefore, educators should adapt lessons to students' levels of knowledge and learning needs and focus on strengthening their practical and reflective skills through the use of virtual laboratories, simulations, online projects, and electronic portfolios. In addition, systematic assessment and analysis of lesson effectiveness, as well as improving teachers' qualifications in the effective use of electronic learning resources, are of great importance.

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