SECTION: PEDAGOGY, PHILOLOGY AND LINGUISTICS

METHODS OF TEACHING WEB TECHNOLOGIES IN VOCATIONAL EDUCATION INSTITUTIONS

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In today's conditions of rapid development of information technologies and global digitalization of society, learning web technologies becomes especially relevant. Web technologies have become an integral part of professional activities in many fields, including business, education, health care, and entertainment. Vocational education institutions play a key role in training specialists who can effectively use and develop these technologies.

The relevance of the topic is determined not only by rapid technological progress, but also by the constant increase in the demand for highly skilled web developers. The job market imposes requirements on graduates, including technical expertise, the ability to adapt to constant changes in this sector, and quickly implement innovative solutions. The fast evolution of web technologies demands continuous updating of educational programs and teaching methodologies. Without adapting to modern technologies, graduates may find themselves uncompetitive in the job market. In this context, this coursework proposes a systematic approach to researching the topic, covering theoretical aspects of studying web technologies, peculiarities of teaching them in professional educational institutions, and developing methodological strategies to enhance the quality of web development education.

The purpose of the article is research and development of effective methods of teaching web technologies in professional education institutions.

In the modern information society and digital age, the deployment of web technologies is defined not only as a toolkit, but also as a fundamental component of modern technological progress.

Web technologies, which have become an integral part of our digital world, have evolved from their beginnings to sophisticated and powerful tools. Consideration of

this evolutionary process is key to understanding the dynamics and directions of development of modern web technologies.

With the dawn of the Internet in the mid-20th century, the first primitive websites emerged. HTML (HyperText Markup Language) and HTTP (HyperText Transfer Protocol) specifications became the basis for interaction and information display in web browsers. With the introduction of JavaScript and CSS, web pages have become more dynamic and interactive.

Today's trends include the development of technologies such as Progressive Web Apps (PWA) [1], WebAssembly [2], and others aimed at improving the performance and expanding the capabilities of web applications. Analyzing the evolution of web technologies makes it possible to trace the path of development of web development, to investigate the achievements of the past and to effectively use them in modern teaching methods.

The growing popularity of mobile devices makes creating mobile-optimized applications and websites a priority in web development. Responsive design, which dynamically adjusts content to different screen sizes, becomes an integral part of a convenient user experience.

The implementation of artificial intelligence and machine learning in web development expands the possibilities of personalizing content, analyzing user data and automating tasks [3, 4].

To create efficient and powerful web applications, JavaScript frameworks such as React, Angular, and Vue.js are becoming an integral part of development. These frameworks offer a component architecture and interface state recovery capabilities that greatly simplify the development process.

Analysis of the evolution of web technologies from the beginning to the present clearly demonstrates the dynamic development of this area and its significant impact on teaching methods.

It is evident that modern learning of web technologies requires a broad understanding of their development and close monitoring of current trends.

Web development, as an important field of information technology, requires specific training for students in professional educational institutions.

One of the key features is the need to integrate theoretical knowledge and practical skills. Students should not only have fundamental knowledge of programming and web technologies, but also be able to apply them in practice. Professional training of web developers should emphasize the development of practical skills through projects and challenges.

Given the rapid development of technology, training programs must follow current trends in web development. Students should familiarize themselves with modern tools, programming languages and frameworks used in the industry. This will ensure their competitiveness in the labor market [5].

Knowledge of design principles and user interaction is an integral part of web development. Students, in addition to studying the technical aspects of programming, need to develop the skills of creating an ergonomic and user-friendly interface.

And one of the most important sections of this topic considers the key elements that determine the impact of web technologies on modern education.

Thanks to web technologies, education becomes accessible to everyone, regardless of location and social status.

They open the door to the creation of interactive educational resources that adapt to the individual needs of each student.

The use of web technologies in education contributes to the development of critical thinking and creative abilities of students. They can interact with a variety of multimedia materials, use interactive tasks, and promote active constructive learning. Students can use open online resources, electronic libraries, and other means to acquire new knowledge at any time convenient for them.

Modern universities must constantly adapt their services and their content because they cannot ignore social trends related to information and communication technologies [6].

Conclusions and perspectives of further research. Web technologies have come a long way from simple text pages to complex and powerful tools that underpin the modern digital world. Their dynamic development not only changes the IT industry but also education, business, and many other aspects of life. Given the rapid development of technologies, educational programs must be constantly updated, as web technologies open up new opportunities for education, making it accessible to a wide audience. Interactive educational resources adapted to the individual needs of students contribute to the development of critical thinking and creative abilities. Thus, further research in the field of teaching methodologies for web technologies in professional educational institutions will contribute to the improvement of education quality, adaptation to modern technological trends, and the preparation of competitive professionals.

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