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# PEDAGOGICAL ASPECTS OF ORGANIZING EDUCATIONAL ACTIVITIES WITH THE HELP OF DIGITAL TECHNOLOGIES

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**Abstract.** *The role and importance of computer technologies in the higher education system is increasing day by day. This technology makes the educational process effective, interactive and comprehensive, as well as new products for students and teachers. Correct and effective use of digital technologies serves to increase the quality of higher education, develop innovative research and connect the education system on a global scale. Therefore, it is necessary for higher education institutions to continue to introduce and develop digital technologies. Accordingly, this article aims to reveal the role and importance of the Canvas platform in the educational process.*

**Keywords:** *canvas educational platform, cube, cone, pyramid, prism, sphere, graphics, animation, visual effects.*

**Introduction.** Digitization is advancing at a rapid pace in today's global environment. This has a significant impact not only on our daily life, but also on the field of education. For this reason, in order to make educational processes effective, interactive and comprehensive, it is necessary to use digital technologies effectively and correctly in classes. Online learning platforms created with the help of digital technologies facilitate communication between students and teachers. For example, through platforms such as Moodle, Canvas, you can upload course materials, assign assignments and evaluate them.

## **Analysis and results.**

By adapting digital technologies to pedagogical goals, the educational process can be made more innovative and effective. Organization of educational activities with the help of digital technologies is a powerful tool that increases the effectiveness of education. These technologies make the educational process interactive, flexible and based on an individual approach. But for a successful implementation:

1. Digital literacy of teachers should be increased, their skills of effective use of technological tools should be formed.
2. Students' independent learning skills should be developed.
3. It is important to form a cultural approach to information security and the use of technologies.

"Canvas is an educational platform that allows teachers to create lesson plans, assign assignments, and communicate with students online" [1]. "Canvas learning process management system (LMS) helps digitize modern education and effectively organize it on online platforms"[4]. This platform is mainly used in the field of art and design. The online education platform can be widely used in universities, schools and other educational institutions. You can organize interactive assignments and discussions on the Canvas platform. It is widely recognized for its ease of use. Basically, you can create graphics, games, visual effects, animations.

This platform is distinguished by the following advantages and features:

1. "Increases the effectiveness of the educational process. Through Canvas, teachers have the opportunity to prepare lesson plans, organize classes and monitor student activity. Students are encouraged to study independently, as course materials, assignments, and resources are available at any time.

2. Flexible and user friendly. Canvas has a simple and easy-to-understand interface that is easy to learn even for new users. The platform works on any device (computer, tablet, phone), which ensures the flexibility of the educational process.

3. Provides interactivity. Develops cooperation and communication among students through forums, discussions, tests and group work. Video lessons can be recorded and broadcasted live.

4. Automated evaluation system. The process of evaluating students' test results and tasks is carried out automatically.

Assessment results and feedback are provided in real-time, allowing students to quickly correct their shortcomings.

5. Integration and flexibility. Canvas integrates with other platforms (Google Drive, Microsoft Office, YouTube) and services. Adapted to the needs of educational institutions through API capabilities.

6. The teacher and the administration can monitor and analyze the students' activities in real time. Provides statistical information in the form of graphs and reports to evaluate the effectiveness of education" [3].

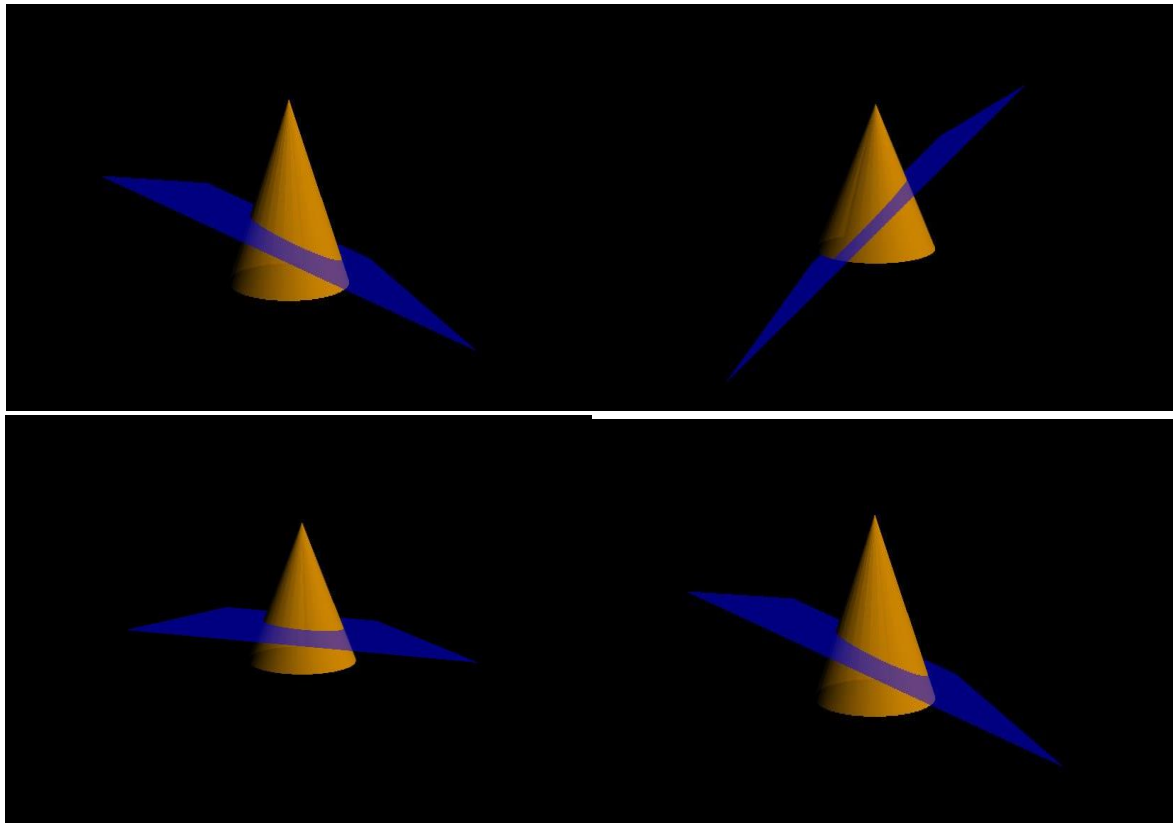
Organization of the educational process with the help of digital technologies increases the effectiveness of education. However, it is necessary to properly direct this process and improve pedagogical approaches. This will increase the level of digital literacy of teachers and students.

We use this platform to teach our analytic geometry course. In this way, it is much easier than other software packages to clearly see, visualize and analyze geometric objects such as cubes, cones, pyramids, prisms, and spheres in three-dimensional space when explaining them to students. At this point, the platform is useful for explaining the sections of a cone, because if a command is given for a cone and a plane crossing it, the platform will automatically show the sections in different positions. That is, it is not necessary to give a separate command for each case to show sections. We present this situation in the following picture (see picture 1).

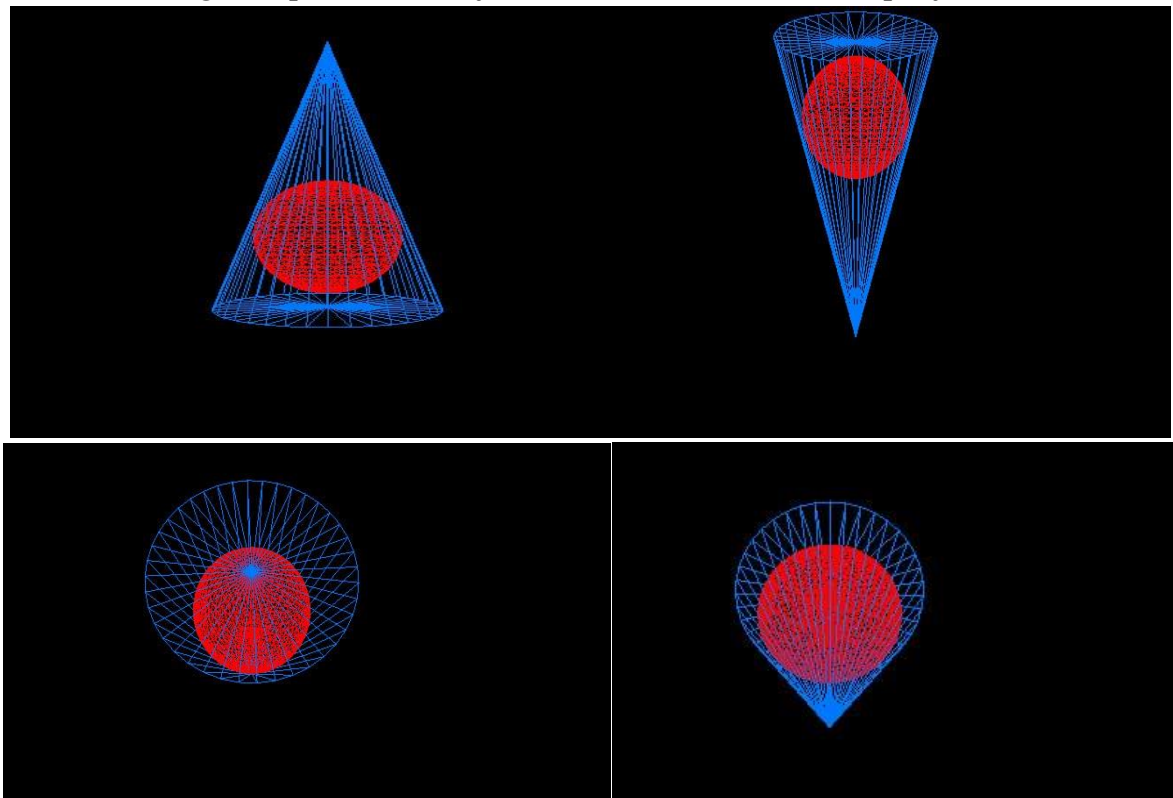
These images are rendered in animated form on the platform. This makes the lesson interesting and lively for students. Also, since it is much easier to create such animations using the Canvas platform, it makes it easier for teachers to create a lesson plan. Let's create an animation of the appearance of a sphere drawn inside a cone in different situations (see Figure 2).

This technology makes it easy to explain complex topics. Enables quick and efficient data management. Data collected in the educational process can be analyzed and necessary measures can be taken to improve the quality of education. Digital technologies create new opportunities in scientific research. Also, Smart boards, interactive presentations and other multimedia tools make the educational process more interesting and effective.

It is known that digitalization allows to connect higher education institutions at the international level. Students and teachers from different countries can work together and exchange experience. Because, "Online courses and electronic resources expand educational opportunities without geographical and social limitations" [2].



*Fig. 1 Representation of conic sections on the Canvas platform.*



*Figure 2. Ball and cone position.*

### **Summary.**

Canvas is a flexible and functional LMS that fully meets the requirements of modern digital education. Its main advantages are to simplify the educational process, increase interactivity and create a user-friendly environment. This platform is an effective tool for optimizing the educational

process and improving quality. The use of Canvas in educational institutions can serve as an important part of the education of the future.

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## Contents

### 13.00.00 PEDAGOGICAL SCIENCES

<b>S.Y. Maraimova</b> METHODOLOGY OF CREATIVITY DEVELOPMENT OF FUTURE PRIMARY EDUCATION TEACHERS IN THE CONDITIONS OF DIGITAL EDUCATION.....	4
<b>G.N. Goyibnazarova</b> THE IMPORTANCE OF THE IDEA OF FUSIONISM IN THE DEVELOPMENT OF STUDENTS' EDUCATIONAL PRACTICE IN GEOMETRY.....	12
<b>D.A. Abdurazakova</b> IMPROVING THE TEACHING DISCIPLINES IN THE FIELD OF INTELLIGENT TRANSPORT SYSTEMS BASED ON INNOVATIVE APPROACH.....	17
<b>D. Khamroyeva</b> DESIGNING INCLUSIVE WRITING ACTIVITIES: ADDRESSING DIVERSE LEARNING NEEDS IN ACADEMIC LYCEUMS.....	20
<b>Sh.F. Tulaganov, A.F. Tulaganov</b> A NEW SPORTS GAME "TARGET BALL" AS A MEANS OF DEVELOPING TEAM SPIRIT IN PRIMARY SCHOOL STUDENTS.....	25
<b>A.M. Utkirov</b> TRANSFORMING HIGHER EDUCATION IN EMERGING MARKETS THROUGH INTEGRATED TQM PRACTICES.....	28
<b>N.K. Kerimbayeva</b> ROLE OF INDEPENDENT EDUCATION IN PROFESSIONAL COMPETENCE DEVELOPMENT OF FUTURE TEACHERS.....	33
<b>P.S. Djurayeva</b> IMPROVING THE PROFESSIONAL COMPETENCE OF TEACHERS IN THE DEVELOPMENT OF THE PRIMARY EDUCATION PROCESS.....	36
<b>Sh.N. Bekmuratova</b> REVIEW OF DIDACTIC GAMES IN THE DEVELOPMENT OF FINE ART EDUCATION.....	44
<b>F.R. Urazmetova, M.V. Kapaeva</b> EDUCATIONAL POTENTIAL OF WEBTOONS IN TEACHING KOREAN VOCABULARY.....	48
<b>N.T. Imankulov</b> METHODOLOGY FOR DEVELOPING STUDENTS' LIFE SKILLS THROUGH THE STEAM APPROACH IN TEACHING NATURAL SCIENCE.....	51
<b>M. Makhmudov, A. Ulugberdiev, S. Ibrohimov, A. Khurramov</b> INTERACTIVE TOOLS DEVELOPMENT FOR TEACHING MEDICAL TECHNOLOGIES.....	54
<b>K.K. Shalankov</b> PEDAGOGICAL CONDITIONS FOR EFFECTIVE INDEPENDENT LEARNING IN MUSIC THERAPY FOR MEDICAL STUDENTS.....	58
<b>G.V. Vakhabova</b> METHODOLOGICAL APPROACHES TO DEVELOPING AESTHETIC THINKING IN FUTURE PRIMARY SCHOOL TEACHERS.....	62
<b>D.I. Askarova</b> CREATIVE WAYS TO INTEGRATE CENTERS INTO DIFFERENT ACTIVITIES IN PRESCHOOL EDUCATION.....	66
<b>Z.F. Jamolova</b> DEVELOPING LEADERSHIP QUALITIES IN PRIMARY SCHOOL STUDENTS THROUGH ENGLISH LANGUAGE LEARNING.....	72
<b>S.M. Jamolova</b> DEVELOPING STEAM EDUCATION: A PATH TO FUTURE INNOVATION.....	77
<b>A.O. Ergashev</b> FOREIGN EXPERIENCE ON CONDUCTING MARKETING RESEARCH IN VOCATIONAL EDUCATION ORGANIZATIONS OF THE REPUBLIC OF UZBEKISTAN.....	80
<b>G.O. Bekberdiyeva</b> FORMATION OF ORGANIZATIONAL SKILLS OF FUTURE TEACHERS.....	84
<b>N.R. Khojiqulov</b> THE PHILOSOPHICAL CONTENT OF THE INSTITUTIONAL BASIS OF THE IMPROVEMENT OF THE BOYS' EDUCATION SYSTEM IN THE NEW UZBEKISTAN.....	87
<b>N.K. Kaitarova</b> THE SPECIFICITY OF THE IMPROVEMENT OF SELF-DEVELOPMENT COMPETENCIES IN FUTURE PRIMARY SCHOOL TEACHERS FOR THE CURRENT EDUCATIONAL PERIOD.....	91
<b>Z.M. Khazratova</b> ENGLISH FOR SPECIFIC PURPOSES (ESP) APPROACH TO LANGUAGE TEACHING.....	95
<b>F.B. Matyakubova</b> ORGANIZING PROJECT MANAGEMENT IN HIGHER EDUCATION INSTITUTIONS.....	101
<b>A. Darmonova</b> PEDAGOGICAL ASPECTS OF ORGANIZING EDUCATIONAL ACTIVITIES WITH THE HELP OF DIGITAL TECHNOLOGIES.....	105
<b>B.J. Matchanov</b> FORMATION OF KNOWLEDGE OF FUTURE TEACHERS ON INFORMATION SECURITY BASED ON A CYBERNETIC APPROACH.....	109
<b>D.T. Komilova</b> THE IMPORTANCE OF USING INTERACTIVE METHODS IN TEACHING BIOPHYSICS IN HIGHER MEDICAL EDUCATION INSTITUTIONS.....	114



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