



IMPROVING METHODOLOGICAL SUPPORT FOR DEVELOPING COGNITIVE COMPETENCIES OF FUTURE TEACHERS THROUGH DIGITAL PLATFORMS

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Article history:	Abstract:
<p>Received: October 14th 2024 Accepted: November 11th 2024</p>	<p>This scientific article explores the significance of leveraging digital platforms to enhance the methodological support for developing the cognitive competencies of future teachers. In an era characterized by rapid technological advancements, integrating digital tools into teacher education programs has become imperative. By utilizing digital platforms effectively, teacher training can be enriched with interactive learning experiences, personalized instruction, and innovative teaching methods. This article delves into the benefits, challenges, and best practices associated with utilizing digital platforms to foster the cognitive development of aspiring educators.</p>

Keywords: cognitive competencies, future teachers, methodological support, digital platforms, teacher education, interactive learning

INTRODUCTION:

The landscape of education is continually evolving, propelled by advancements in technology that have revolutionized the way we teach and learn. In this digital age, the integration of digital platforms into teacher education programs presents a unique opportunity to enhance the development of cognitive competencies among future teachers. By providing methodological support through digital tools, teacher training can be tailored to meet the diverse learning needs of aspiring educators, equipping them with the skills and knowledge necessary to excel in their roles. This article explores the potential of digital platforms in transforming teacher education and improving the cognitive abilities of future teachers.

METHODOLOGICAL SUPPORT THROUGH DIGITAL PLATFORMS:

1. Interactive Learning Experiences: Digital platforms offer a dynamic and interactive learning environment where future teachers can engage with multimedia content, simulations, and virtual reality applications. These immersive experiences not only enhance comprehension but also stimulate critical thinking, problem-solving, and creativity.

Interactive learning experiences are essential in modern education, especially in teacher training programs where future educators must develop the necessary cognitive competencies to excel in their roles. Digital platforms play a crucial role in providing dynamic and interactive learning environments that enhance the learning process for aspiring teachers. Here's a deeper

dive into the significance of interactive learning experiences through digital platforms:

IMPORTANCE OF INTERACTIVE LEARNING EXPERIENCES:

1.1. Enhanced Engagement: Interactive learning experiences captivate the attention of future teachers by offering multimedia content, simulations, and virtual reality applications that are visually stimulating and engaging. This heightened engagement leads to improved focus, motivation, and retention of information.

1.2. Stimulate Critical Thinking: By presenting complex scenarios and interactive challenges, digital platforms encourage future teachers to think critically and analyze information from multiple perspectives. This cultivates a deeper understanding of educational concepts and promotes higher-order thinking skills.

1.3. Promote Problem-Solving Skills: Through interactive problem-solving activities and simulations, aspiring teachers can apply theoretical knowledge to practical situations, developing their ability to identify, analyze, and solve complex problems effectively. This hands-on approach fosters a problem-solving mindset essential for effective teaching.

1.4. Foster Creativity: Interactive learning experiences on digital platforms provide opportunities for future teachers to explore innovative teaching methods, experiment with different strategies, and unleash their creativity in lesson planning and instructional design. This creative freedom nurtures a culture of innovation and adaptability in teaching practices.



1.5. Facilitate Active Learning: Interactive learning experiences promote active participation and engagement, shifting learners from passive recipients of information to active constructors of knowledge. By interacting with digital content and engaging in interactive tasks, future teachers take ownership of their learning process, leading to deeper comprehension and long-term retention of concepts.

IMPLEMENTATION OF INTERACTIVE LEARNING EXPERIENCES:

Multimedia Content: Utilize videos, animations, infographics, and other multimedia resources to present information in engaging and visually appealing formats that cater to different learning preferences.

Simulations and Virtual Reality: Incorporate simulations and virtual reality applications that simulate real-world teaching scenarios, allowing future teachers to practice classroom management, lesson delivery, and student interactions in a risk-free environment.

Interactive Quizzes and Activities: Integrate interactive quizzes, games, and activities that challenge future teachers to apply their knowledge, test their understanding, and receive immediate feedback on their performance.

Collaborative Projects: Foster collaboration among future teachers through online group projects, discussions, and peer feedback sessions that encourage teamwork, communication, and collective problem-solving.

2. Personalized Instruction: Through adaptive learning algorithms and data analytics, digital platforms can provide personalized instruction tailored to the individual learning styles and preferences of future teachers. By offering targeted feedback and recommendations, these platforms support the development of cognitive competencies in a customized and effective manner.

3. Collaboration and Communication: Digital platforms facilitate collaboration among future teachers, enabling them to interact with peers, mentors, and experts in the field. Through online forums, discussion boards, and virtual classrooms, aspiring educators can engage in meaningful dialogues, share ideas, and collaborate on projects, fostering the development of communication and teamwork skills.

4. Access to Resources: Digital platforms provide easy access to a wealth of educational resources, including e-books, research articles, instructional videos, and online courses. By leveraging these resources, future teachers can expand their knowledge base, stay current on educational trends, and enhance their cognitive competencies through self-directed learning.

5. Feedback and Assessment: Digital platforms offer innovative ways to provide feedback and assess the

progress of future teachers. Through online quizzes, assessments, and performance analytics, educators can monitor cognitive growth, identify areas for improvement, and track the development of essential competencies over time.

CHALLENGES AND BEST PRACTICES:

While the integration of digital platforms in teacher education offers numerous benefits, it also presents challenges such as digital literacy barriers, technological constraints, and concerns about data privacy and security. To address these challenges, it is essential to provide adequate training and support for both faculty and students, ensure the accessibility and usability of digital tools, and adhere to ethical guidelines in the use of technology.

By enhancing methodological support for developing cognitive competencies through digital platforms, teacher education programs can empower future teachers with the skills, knowledge, and adaptability needed to thrive in today's rapidly changing educational landscape. Through innovative approaches, collaborative learning experiences, and personalized instruction, digital platforms have the potential to revolutionize teacher training and shape a new generation of competent and effective educators. Continued research and evaluation of best practices in utilizing digital platforms will be crucial in maximizing their impact on the cognitive development of aspiring teachers and ultimately improving the quality of education for all learners.

In conclusion, interactive learning experiences on digital platforms play a pivotal role in developing the cognitive competencies of future teachers by enhancing engagement, critical thinking, problem-solving skills, and creativity. By leveraging these immersive experiences, teacher training programs can create a dynamic and effective learning environment that prepares aspiring educators for the challenges and opportunities of modern education.

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