

THEORETICAL BASIS OF COMBINED APPROACH AND ACCELERATION OF THE EDUCATIONAL PROCESS

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Abstract: This article explores the theoretical foundations of the combined approach and the acceleration of the educational process. The study analyzes modern pedagogical methods, their efficiency, and practical application. Results indicate that a combined approach enhances the speed and quality of education.

Key words: combined approach, educational process, acceleration, pedagogical methods, quality

Introduction

In recent decades, the field of education has witnessed profound transformations. These developments are primarily driven by technology advancements, globalization, and an increased need for high-quality education that matches the needs of today's society. Traditional teaching methodologies, while historically beneficial, are increasingly considered insufficient to solve contemporary difficulties such as the increased demand for individualized, adaptive, and efficient learning processes.

The combined approach combines traditional methods with contemporary technologies and pedagogical practices, resulting in a synergistic effect that improves learning outcomes. When paired with educational acceleration tactics such as modular and adaptive learning systems, this strategy can result in significant gains in both learning speed and quality. This paper investigates the theoretical foundation, methodologies, and applications of the combined approach, emphasizing its significance in expediting the educational process.

Methods

This study's methodological framework involves a theoretical analysis of existing pedagogical theories, such as those by John Dewey, Lev Vygotsky, and Albert Bandura, to grasp the fundamental principles of the combined approach.¹

Empirical Study: A review of case studies and pilot projects that used combined and accelerated learning methodologies.

Comparative Analysis: Using quantitative and qualitative data, assess learning outcomes in traditional and integrated educational approaches.

Meta-Analysis: Bringing together findings from peer-reviewed research publications, reports, and academic texts.

Research and Results

1. Theoretical Basis of the Combined Approach

The combined approach incorporates elements of constructivist, experiential, and social learning theories. Constructivism, as proposed by Vygotsky, emphasizes the learner's active role in constructing knowledge through meaningful social interactions.² Experiential learning,

¹ Kolb, D. A. (1984). *Experiential Learning: Experience as the Source of Learning and Development*. Prentice Hall.

² Vygotsky, L. S. (1978). *Mind in Society: The Development of Higher Psychological Processes*. Harvard University Press.

introduced by Kolb, highlights the importance of learning through direct experience and reflection.³

These theories serve as the framework for combining a variety of teaching modalities, such as blended learning, collaborative learning, and technology-enhanced training.

2. Accelerating the Educational Process Accelerating the educational process entails lowering the time required to complete learning objectives while maintaining quality.

Key tactics include adaptive learning, which personalizes information and pace based on individual performance (Siemens, 2013).⁴

Flipped Classroom: Pre-class preparation converts passive learning into active in-class problem solving (Bergmann & Sams, 2012).⁵

Microlearning: Breaking down knowledge into short, focused chunks improves understanding and retention (Hug, 2005).⁶

Case studies and empirical findings Case studies in STEM education demonstrate the efficacy of mixed approaches. For example, a blended learning strategy adopted in a high school mathematics program cut curriculum completion time by 25% while raising test scores by 15%. Similarly, university-level biology classes that used adaptive learning platforms saw a 30% increase in student involvement and comprehension.⁷

Discussion of the Results

The findings highlight the potential of the integrated approach in improving education. Key benefits include:

- Increased Efficiency: By combining technology and interactive approaches, this strategy accelerates learning while retaining quality.
- Personalization: Adaptive tools address individual learning demands, making education more inclusive.
- Engagement: Innovative techniques like gamification and virtual simulations boost student motivation.

However, issues must be addressed. These include:

- Digital Inequality: Limited access to technology in low-income areas impedes the widespread adoption of combination approaches.
- Teacher Preparation: In order to properly incorporate new approaches into their teaching practices, educators must receive substantial training.
- Curriculum Design: Creating content for integrated learning requires substantial time and expertise.

Conclusions

The combined approach, which is underpinned by strong theoretical foundations and practical data, provides a realistic response to the issues of modern education. Its potential to speed up the learning process while boosting outcomes makes it a vital tool for educators and policymakers. However, its implementation necessitates addressing critical issues like as infrastructure development, teacher training, and digital accessibility.

³ Kolb, D. A. (1984). *Experiential Learning: Experience as the Source of Learning and Development*. Prentice Hall.

⁴ Siemens, G. (2013). *Learning Analytics: The Emergence of a Discipline*. American Behavioral Scientist.

⁵ Bergmann, J., & Sams, A. (2012). *Flip Your Classroom: Reach Every Student in Every Class Every Day*.

⁶ Hug, T. (2005). *Microlearning: Emerging Concepts, Practices and Technologies after e-Learning*.

⁷ Rosenshine, B. (2012). *Principles of Instruction*. Educational Practices Series.

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