

Research on the Design of Facilitative Elements in Teaching Based on the "Output-Oriented Approach" and the "Three Advancements"

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Abstract: In the context of globalization and the impetus of educational modernization, enhancing the quality of teaching has emerged as a crucial subject of contemporary educational research. The output-oriented approach, as a pedagogical theory that emphasizes learning outcomes, underscores the importance of guiding the teaching process through well-defined learning objectives. Concurrently, the "Three Integrations" teaching method, which incorporates theoretical lessons, experimental work, and practical application into the classroom, fortifies students' comprehensive understanding of disciplines. The effective amalgamation of these two approaches can further elevate teaching efficacy. This article aims to explore the design strategies of the "Three Integrations" teaching facilitated by the output-oriented method, with a focused analysis of its practical application advantages and the challenges it faces. Through an in-depth theoretical analysis and practical inquiry, we aspire to furnish educators with practical guidance for innovative instructional design, thereby advancing the overall enhancement of teaching quality.

1. Introduction

In the context of current educational reforms, enhancing students' comprehensive abilities and practical application skills has become the central task of education. Traditional teaching models often place excessive emphasis on the unidirectional transmission of theoretical knowledge, lacking in the cultivation of students' practical operational abilities. Simultaneously, the Outcome-Based Approach, with its core philosophy centered on results, offers new perspectives for optimizing teaching practices. The "Three-Step" Teaching Method, through multidimensional and multi-tiered instructional designs, promotes the deep integration of theory and practice. Combining these two teaching philosophies to explore scientifically-sound and reasonable instructional design methodologies has become a significant topic within both the theoretical and practical realms of education. This article, rooted in the integration of the Outcome-Based Approach and the "Three-Step" Teaching Method, explores a highly operable instructional design framework, aiming to enhance the specificity and effectiveness of teaching, and to provide theoretical support and practical guidance for instructional practice in the new era [1].

2. Theoretical Foundations of the "Three Advances" Teaching Method

The "Three Integrations" teaching method, as an innovative educational paradigm, has garnered significant attention within the realm of education. The core tenet of this approach involves integrating theoretical knowledge, experimental procedures, and practical applications into the classroom, thereby enabling students to comprehensively grasp and understand the subject matter from multiple perspectives. This methodology emphasizes the seamless fusion of theoretical insights with real-world applications, transcending the limitations of traditional pedagogy, which often restricts itself to mere didactic instruction. Consequently, it offers students a broader and more expansive learning horizon. In the theoretical integration phase, educators are tasked not only with imparting knowledge but also with guiding students to a profound comprehension of the essence and cutting-edge developments within the discipline. The experimental integration phase, through hands-on experimentation, allows students to verify and deepen their theoretical understanding, fostering a spirit of inquiry and innovation. The practical integration phase is pivotal in cultivating students' ability to apply their knowledge to real-world challenges. This not only serves as a validation of theoretical concepts but also as a potent means to enhance motivation and promote holistic development. This teaching methodology underscores the quintessence of education—empowering students through diverse instructional techniques and varied learning environments to unlock their potential. It emphasizes the interconnectedness of different learning stages, thereby facilitating comprehensive development in academic knowledge, practical skills, and innovative thinking. Education is not merely the transmission of knowledge; it is the process of molding well-rounded individuals. Against the backdrop of modern educational paradigms, the "Three Integrations" teaching method offers educators a highly effective framework, clarifying instructional objectives and rendering the pedagogical path more transparent, ultimately propelling students towards holistic development.

3. Analysis of the Current Application of the Output-Oriented Approach and the "Three Advances" Teaching Method

3.1. Current Application of the Output-Oriented Approach

Output-oriented pedagogy has seen increasingly widespread application in the educational realm in recent years, emphasizing a clear outcomes-driven approach that makes the instructional process more purposeful. Its essence lies in designing educational activities from the expected learning outcomes as the starting point. Presently, numerous educational institutions are gradually incorporating the output-oriented method into their curriculum design, aiming to enhance students' practical application abilities and meet the demand for cultivating diverse talents. In certain higher education institutions, this method has already been regarded as a pivotal component of curriculum reform, intending to guide teachers in designing instructional content and assessment criteria through explicit learning objectives. One of the major incentives for applying the output-oriented method is its potential to shift the focus of instruction from traditional knowledge transmission to nurturing students' capabilities and qualities, especially in cultivating talents who can adapt to rapidly changing societal needs. This approach not only drives the renewal of course content but also necessitates teachers to adjust their instructional strategies, ensuring that the skills and knowledge students acquire in class directly align with the predetermined learning outcomes. To some extent, this results-oriented educational approach also sparks creativity in instructional design among teachers, prompting them to constantly reflect on the connection between instructional content and actual outcomes [2]. Although the output-oriented method has achieved certain successes in many areas, there are still practical challenges, including teachers' adaptability, the

supply of instructional resources, and the effectiveness of the assessment system. In situations where skepticism towards this method persists, altering the inertia of evaluation standards and ensuring the understanding and cooperation of all instructional members become significant obstacles in its promotion. Addressing these issues not only requires institutional support but also calls for practitioners to continuously summarize and improve through practice, while a new educational culture is needed to encourage teachers and students to jointly explore the depth and breadth of knowledge, ultimately achieving a simultaneous enhancement of instructional and learning effects [3].

3.2. Current Status of the "Three Advances" Teaching Method

Since its inception, the "Three-in-One" teaching methodology has been widely applied in practice and gradually adopted by various schools and educational institutions. This pedagogical approach emphasizes the comprehensive integration of theory, experimentation, and practice, aiming to address the disconnect between theory and practice inherent in traditional instructional models. Nevertheless, despite the evident advantages this method presents in enhancing students' comprehensive qualities, its implementation faces certain challenges. The degree to which the "Three-in-One" teaching method is implemented varies across different schools and educational contexts. Particularly in the realms of experimentation and practical application within the classroom, the effectiveness is often suboptimal due to limitations in resources, time, and teachers' capabilities. In some schools, insufficient experimental equipment and limited opportunities for practical application hinder the effectiveness of the "Three-in-One" method. Additionally, the role of teachers is crucial in this process; however, not all educators possess the ability to design and guide practical activities. This necessitates that teachers not only possess a robust theoretical foundation but also consistently update and enrich their practical experiences. For some educators, the challenge remains in how to organically integrate theory, experimentation, and practice into their daily instructional design. Although the concept of the "Three-in-One" teaching method has been widely recognized, its flexibility and operability in practical applications require further enhancement. Particularly in higher education, there is a lower alignment between some course contents and practical components, making it difficult for students to find suitable opportunities for practical application outside the classroom, thereby diminishing the practical impact. Nonetheless, the potential of the "Three-in-One" teaching method cannot be underestimated, as it prompts education to shift from a singular focus on knowledge transmission to fostering students' abilities to solve real-world problems. In future educational reforms, how to fully leverage the advantages of this method while overcoming its existing issues remains a subject for deep contemplation among educators [4].

3.3. The Integration of the Output-Oriented Approach and the "Three Advances" Teaching Method: Current Status

The integration of outcome-based methods with the "Three Advances" teaching approach has gradually garnered attention within the educational community in recent years. This synthesis aims to guide instructional design through well-defined learning outcome objectives while simultaneously enhancing students' theoretical knowledge, experimental skills, and practical capabilities. However, the effectiveness of this integration in practice varies due to a multitude of objective conditions. In certain pilot institutions, this combination has begun to manifest promising results. Educators employ precise learning outcomes to inform their backward design of instructional activities, offering students a clearer learning pathway. In course design, teachers are increasingly focused on closely intertwining theory with practice, fostering students' understanding

of theoretical concepts through experimentation and enhancing their ability to tackle real-world problems through practical engagement. This reverse design not only renders the teaching process more structured but also imbues students with a greater sense of direction in their learning, facilitating their comprehension of the applicability of acquired knowledge in authentic contexts. Nevertheless, the amalgamation of outcome-based methods with the "Three Advances" teaching approach is not without its challenges; some institutions encounter numerous obstacles during implementation. For instance, the effective integration of diverse subject-specific learning outcomes into practical teaching segments necessitates repeated deliberation and adaptation. Additionally, the training of educators and the allocation of resources remain critical factors, as teachers must possess the agility to adjust their instructional strategies to ensure the effective achievement of designated learning outcomes within limited classroom time. In this context, ongoing innovation and practical application are particularly vital. Educational institutions must encourage teachers to embrace bold innovation in course design, while also providing the necessary support and resources. For educators, this represents not only a shift in instructional strategy but also a profound transformation in educational philosophy, emphasizing the enhancement of students' practical abilities and comprehensive development of their competencies [5].

4. Design Measures for the Facilitation Phase of the "Three Advances" Teaching Method Based on the Output-Oriented Approach

4.1. Clearly Defined Educational Objectives

In the implementation of the "Output-Oriented Approach" within the "Three Advances" teaching design, the explicit establishment of educational objectives stands as a crucial component. Effective instructional goals not only furnish courses with direction and structure but are also intrinsically linked to the depth and breadth of students' learning experiences. A well-articulated educational objective aids students in comprehending the ultimate expectations of the course, sustaining their sense of purpose and motivation throughout the learning journey. For educators, clearly defined goals render the teaching process more targeted and systematic. The formulation of precise educational objectives necessitates a profound understanding of the course content, student characteristics, and the practical context of application. Educators must adopt the learner's perspective, contemplating which competencies and knowledge are essential for students to master both inside and outside the classroom. Simultaneously, the output-oriented framework emphasizes the ultimate effectiveness of teaching activities, thus necessitating goals that not only focus on knowledge dissemination but also on students' ability to apply that knowledge in real-world scenarios. For instance, in engineering courses, objective setting must encompass the assimilation of theoretical knowledge, the development of practical skills, and the enhancement of problem-solving capabilities. However, in practice, establishing appropriately challenging goals is a complex endeavor. Vague objectives may lead to scattered instructional content, while overly specific ones might constrain teaching flexibility. This calls for educators to possess the ability to distill complexity into simplicity, transforming intricate educational content and expectations into a series of concrete and assessable learning objectives. Throughout this process, teachers can draw upon the experiences of their peers for validation and adjustment of the objectives. Moreover, the setting of instructional goals must be closely integrated with all facets of the curriculum, such as experimental and practical elements, necessitating a clear identification of the specific skills to be developed within these contexts. It is also essential to highlight that dynamic adjustment and feedback mechanisms are of equal significance in goal setting. Educational objectives should not remain static but rather be reflective and adaptable based on student feedback and teaching outcomes. This flexible strategy not only enhances teaching efficacy but also motivates students to

engage actively in their learning, providing valuable feedback on their experiences and fostering a positive educational cycle [6].

4.2. Thoughtful Selection of Teaching Content

Within the framework of the Output-Oriented Approach, the judicious selection of instructional content is of paramount importance. Rather than a mere accumulation of knowledge, the content should be designed to support the future development of students' capabilities. Curriculum design must not only consider the comprehensiveness of theories but also contemplate how these theories can be effectively applied in practice. An exemplary curriculum should empower students not only to comprehend theories but also to transform them into tools for problem-solving in experiments and real-world applications. When selecting instructional content, emphasis should be placed on its cutting-edge nature and practicality. This implies that the curriculum should not merely rest on the knowledge found in textbooks but should be closely aligned with the demands of actual industries. Students should not only learn fundamental theories but also master how to apply these theories in real scenarios to solve problems. For students on the brink of entering the workforce, knowledge that cannot be directly applied often diminishes the effectiveness of learning. The selection of appropriate instructional content should ensure that students can swiftly adapt to industry demands upon graduation, equipped with the ability to tackle complex problems. Additionally, the content should possess a certain degree of flexibility and gradation, as students with varying ability levels require different depths and degrees of difficulty in content. An exceptional instructional design caters to the diverse receptivity of students. For those with a strong foundation, the curriculum can delve into discussions on the forefront of the discipline, stimulating their innovative thinking; for those with a weaker foundation, the focus should be on consolidating basic knowledge and cultivating practical skills. Throughout this process, instructional content must not remain static. As times evolve, the pace of knowledge renewal accelerates, necessitating continuous iteration of instructional content. Instead of awaiting textbook updates, it is prudent to proactively adjust content, integrating the latest research findings and industry trends into curriculum design [7].

4.3. Optimized Design of Teaching Activities

Within the framework of the "Output-Oriented Approach," the optimization of instructional activities has emerged as a pivotal means to enhance students' learning outcomes. Traditional teaching methods, often centered around the instructor, have their efficacy in knowledge dissemination circumscribed. In contrast, the enhancement of instructional activities focuses on elevating students' engagement and practical application capabilities, creating authentic learning scenarios where they can grasp knowledge through practice. The crux of optimized design lies in the seamless integration of theory and practice, fostering an interactive classroom environment. The classroom should no longer be merely a static conduit for knowledge transfer but a dynamic process of knowledge construction. Through methods such as group discussions, case analyses, and project collaborations, instructors can guide students in deep dives into issues and inspire them to propose innovative solutions. For instance, in business courses, by simulating real commercial environments and assigning students different roles, they can experience market analysis and decision-making processes. This experiential learning not only elucidates key theoretical concepts but also elevates their practical operational skills. Moreover, leveraging technological tools to further enhance instructional activities is a modern classroom trend [8]. The utilization of multimedia resources, online learning platforms, and virtual laboratories can significantly expand the dimensions of instructional activities. The introduction of virtual reality technology allows students to visually comprehend complex structures or remotely experience experimental processes, stimulating their

curiosity and learning motivation through immersive sensory modes. Empirical evidence indicates that interaction and multisensory engagement significantly enhance learning outcomes and promote deep comprehension. In optimizing instructional activities, the role of the instructor also needs redefinition. The instructor transitions from a sole purveyor of knowledge to a guide and supporter of learning, aiding students in constructing knowledge through exploration. Through continuous feedback mechanisms, instructors can promptly identify issues students face in their learning and provide personalized guidance. This feedback not only elevates the immediacy of instructional effectiveness but also encourages students to take a more proactive and enthusiastic approach to learning. This collaborative teaching model breathes new life into the classroom. Additionally, the design of instructional activities should focus on the sustainability of learning outcomes, going beyond short-term knowledge acquisition to nurture long-term capabilities. By crafting diverse and multifaceted learning tasks, students can reflect and synthesize their knowledge into practical abilities through completion. For example, through ongoing project planning and implementation, students not only gain professional knowledge in their courses but also refine soft skills such as team collaboration and project management over extended durations. This foundational preparation underscores their future professional development. The optimization of instructional activities represents not only a revolution in teaching methods but also a progression in educational philosophy. Centered on the student, it emphasizes both the impartation of knowledge and the cultivation of abilities. By creating interactive, practical, and creativity-stimulating classroom environments, optimized instructional activities enable students' growth through practice, preparing them amply for future academic research and professional endeavors[9].

4.4. Enhancement of Assessment and Feedback Mechanisms

Traditional educational assessment often places excessive emphasis on final grades, neglecting the subtle progress and potential challenges encountered by students during their learning journey. By optimizing the assessment and feedback mechanisms, we can cultivate a more comprehensive understanding of students' academic situations while providing educators with critical insights for adjusting their instructional strategies. Assessment transcends mere results measurement; it is fundamentally an observation of the learning process. To genuinely capture the dynamics of student learning, diverse assessment methods become indispensable. While final examinations indeed gauge students' mastery of knowledge, routine quizzes, coursework, classroom presentations, and group projects equally play a significant role. Through multidimensional assessment approaches, a clearer picture of students' performance in knowledge comprehension, skill application, and teamwork can be attained. This process-oriented assessment encourages students to shift their focus away from solely fixating on final scores and instead toward enhancing their overall abilities. Effective feedback is a pivotal component of the assessment mechanism. Feedback serves not only as a correction of errors but also as guidance and motivation throughout the student's learning journey. Timely and specific feedback empowers students to identify their strengths and weaknesses while offering constructive suggestions for improvement. This type of feedback cultivates students' engagement and autonomy in their learning. Furthermore, during the feedback process, deeper exchanges can occur between teachers and students, allowing educators to better adjust their teaching strategies to accommodate diverse learning styles and needs while listening to students' perspectives. The integration of technology in modern education has introduced new possibilities for refining assessment and feedback mechanisms. Utilizing online learning platforms and data analysis tools enables educators to meticulously track students' progress and learning process data. Such data not only aids in identifying common challenges, such as misunderstandings of specific concepts but also directs personalized instruction to fulfill differentiated tutoring needs. By

employing multimedia techniques, educators can present feedback in more varied and enriching formats, transcending the limitations of traditional written and verbal communication, thus enhancing students' receptivity and understanding. Enhancing assessment and feedback mechanisms requires a focus on students' individual developmental goals. Assessment should extend beyond academic abilities to encompass a holistic evaluation that includes critical thinking, creativity, and a sense of social responsibility [10]. Such a comprehensive evaluation system more accurately reflects students' overall qualities and potential, providing robust support for their future academic and professional endeavors. Within this evaluative framework, students' individuality and creativity can flourish; they no longer exist merely as "grade machines" under a singular standard but instead as diverse and intricate individuals. Through the ongoing refinement of assessment and feedback mechanisms, the educational process can evolve into a true virtuous cycle. In this interactive dynamic, both teachers and students continuously refine their learning methods and teaching strategies, fostering an environment of mutual encouragement and collective growth.

5. Conclusion

The essence of education lies in fostering the holistic development of students, emphasizing the integration of theory and practice. The "Three-In" instructional design, based on an outcome-oriented approach, enhances the quality of education by clearly setting objectives, judiciously selecting content, optimally designing activities, and refining evaluation and feedback mechanisms. Although this innovative teaching method faces multiple challenges in practical application, including teacher competency, educational resources, and environmental constraints, it undeniably offers new possibilities for educational reform. In future educational practices, achieving a deep integration of the outcome-oriented approach and the "Three-In" methodology through scientific instructional design will be a continuous focus of exploration for educators. Ultimately, by deepening theoretical understanding and driving innovative practices, it is hoped that students will be provided with a more enriching and efficient learning experience, thereby propelling the overall enhancement of education quality.

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