



Research on Higher Education Management Practices from the Multidisciplinary Perspective

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DOI: 10.32629/jher.v5i1.2134

Abstract: With the rapid development of technology and society, traditional higher education management models face significant challenges. Higher education institutions urgently need to adapt to these changes to cultivate graduates capable of addressing the complex problems of the 21st century. Educational management practices based on a multidisciplinary perspective can not only provide more comprehensive solutions but also offer a deeper understanding of how education interacts with technology, social change, and globalization trends. This paper analyzes the significance of higher education management from a multidisciplinary perspective and proposes practical strategies based on this approach to provide references for relevant personnel.

Keywords: multidisciplinary, higher education management, practice

1. Introduction

In today's rapidly changing globalized world, higher education faces numerous challenges and opportunities. The education system must continually adapt to new technological revolutions, economic transformations, and increasing cultural diversity. With the rapid development of information technology and the growing demand for innovation and diverse capabilities from society, traditional higher education management models are becoming inadequate to meet these emerging needs. Therefore, higher education institutions urgently need to enhance educational quality and management efficiency through interdisciplinary collaboration and integration.

2. The Significance of Higher Education Management from a Multidisciplinary Perspective

2.1 Promoting Educational Equity

Traditional university administrative management focuses on efficiency and utilitarianism, whereas a multidisciplinary perspective provides a more comprehensive approach to this issue. From a sociological standpoint, education should pursue social justice, ensuring that all members of society, regardless of their socio-economic status, can access higher education. From an economic perspective, fairness and efficiency in educational investment ensure the optimal return on educational resources. Politically, the formulation and implementation of university education policies should emphasize democracy and fairness to ensure that higher education policies consider the interests of all societal groups, especially disadvantaged ones. Based on this, constructing a higher education management system on a multidisciplinary foundation can better identify and address structural issues limiting educational equity, promoting the rational allocation and utilization of educational resources.

2.2 Improving Educational Quality and Efficiency

With increasing global competition and the demands of economic and social development on higher education, there is a higher requirement to improve the quality and efficiency of education. From an educational standpoint, research on teaching methods and learning theories can enhance the content and methods of teaching, increasing its relevance and effectiveness. From a psychological perspective, understanding and responding to students' psychological needs and effectively managing stress and motivation can improve learning outcomes and academic performance. From a management perspective, the operational efficiency of higher education organizations is crucial for integrating practical management and modern management concepts, optimizing management processes, and improving the quality of educational services. Based on this, combining research findings and theoretical insights from different disciplines can systematically analyze and address problems in the development of higher education in our country, leading to the proposal of more scientific and efficient educational strategies.

2.3 Achieving Educational Innovation and Sustainable Development

The interdisciplinary integration of education and management has led to changes in educational, teaching, and management methods. On this basis, introducing multidisciplinary research results and teaching methods, such as leveraging design thinking to develop problem-solving skills and using big data to analyze students' learning outcomes, can optimize and upgrade teaching content and models. From a sustainable development perspective, higher education must consider not only current needs but also long-term impacts, such as environmental impact assessments and the cultivation of social responsibility, to ensure that education contributes positively to society and the environment. This approach enables higher education institutions to address current challenges and prepare for future changes.

3. Practical Strategies for Higher Education Management from a Multidisciplinary Perspective

3.1 Formulating Policies that Meet Modern Educational Needs

In the context of globalization and technological innovation, higher education is undergoing unprecedented transformations. To address these challenges and fully leverage the core role of higher education in economic and social development, it is necessary to formulate policies that meet modern educational needs. These policies should be based on a multidisciplinary perspective, considering various factors such as economic development, social change, and technological innovation to ensure the effectiveness of educational management keeps pace with the times. First, from an economic perspective, educational policies need to consider the returns and efficiency of educational investment. With the rise of the knowledge economy, the enhancement of human capital is seen as a key driver of economic development. Therefore, educational policies should promote close integration with industry, such as by introducing curricula related to emerging technologies (e.g., artificial intelligence, big data) and strengthening students' practical abilities and innovation awareness to meet the needs of economic development. Additionally, policies should focus on the equitable distribution of educational resources to ensure that all groups have access to high-quality educational resources, thereby reducing social inequality and promoting inclusive growth. Second, from a sociological perspective, modern educational policies should reflect and serve the diversity and complexity of society. This includes formulating policies to address changes in social structure, such as promoting social mobility through education and breaking traditional class boundaries. Policies should also focus on how education can strengthen social cohesion and cultural identity, such as by enhancing multicultural education and promoting interaction and understanding among students from different backgrounds. In this regard, policymakers in higher education need to draw on sociological research findings to ensure that educational policies can adapt to and positively respond to social development and changes. Third, from a combined perspective of education and psychology, policies that meet modern needs should emphasize the holistic development of students, not just the cultivation of professional skills. This includes fostering critical thinking, creativity, and interpersonal skills. Educational policies should encourage innovation in curriculum design and teaching methods, such as implementing project-based learning and flipped classrooms, to increase opportunities for active learning and self-exploration among students.

3.2 Optimizing the Allocation and Utilization of Higher Education Resources

In the face of increasingly constrained educational resources and ever-changing educational needs, resource allocation strategies based on a multidisciplinary perspective can distribute and utilize educational resources more scientifically and reasonably. First, from an economic perspective, the primary task of optimizing resource allocation is to improve resource use efficiency. This involves a comprehensive analysis of the usage of various higher education resources, including financial funds, faculty strength, and facilities. Through cost-benefit analysis, it is possible to determine which resource investments contribute most significantly to improving educational quality, thereby prioritizing resource allocation accordingly. For example, research-intensive universities might require more investment in laboratory equipment and research funding, while institutions focused on undergraduate education may need to invest more in faculty training and the improvement of teaching facilities. Second, from a management perspective, effective resource allocation must be based on meticulous management. This includes tracking and evaluating resource usage to ensure that resources are utilized as planned and adjusting strategies promptly to address new challenges. For instance, modern information technology tools, such as cloud-based educational resource management systems, can be introduced to achieve dynamic monitoring and management of resource allocation and usage. This allows for the timely identification of shortcomings in resource utilization and rapid adjustment and optimization of strategies. Third, from sociological and educational perspectives, optimizing resource allocation must ensure educational equity. This means considering the specific needs of students from different regions and backgrounds when allocating resources. For example, higher education institutions in resource-poor rural or remote areas may require more

government support and social funding to ensure that students in these areas can also access high-quality educational services. Additionally, mechanisms such as scholarships and grants should be established to help economically disadvantaged students complete their studies, ensuring fairness and inclusiveness in the distribution of educational resources.

3.3 Enhancing Educational Quality and Academic Standards

In the contemporary higher education system, improving educational quality and academic standards is not only a matter of internal management for educational institutions but also reflects a country's educational competitiveness. Therefore, formulating and implementing effective quality assurance measures based on a multidisciplinary perspective is a core task. First, from the perspective of educational management, higher education institutions should establish and perfect internal quality assurance systems. This includes setting up organizational structures for quality monitoring, such as a Teaching Quality Monitoring Committee, whose functions are to supervise the compliance of educational activities with academic standards, periodically assess teaching quality, and optimize teaching methods and curriculum content based on feedback. Additionally, by introducing external evaluations and accreditations, such as peer reviews and professional certifications, the quality of education can be verified from a third-party perspective, increasing transparency and trust in the educational process. Second, from the perspectives of psychology and education, enhancing educational quality requires attention to students' learning experiences and psychological development. This means that teaching methods and curriculum design should be more student-centered, focusing on developing students' critical thinking, innovation abilities, and self-directed learning skills. Specifically, methods such as cooperative learning, case-based teaching, and simulation experiments, which are highly interactive and practical, can enhance students' engagement and practical skills. Additionally, universities should provide ample academic support services, such as learning advisors and career development guidance, to help students overcome learning difficulties and optimize their learning paths and career plans. Third, from the perspective of technological innovation, using modern information technology to enhance educational quality and academic standards is an indispensable approach. For instance, digital teaching platforms can offer a wealth of online learning resources, supporting remote education, lifelong learning, and personalized learning needs. Moreover, by using big data to analyze students' learning behaviors and outcomes, educational administrators and teachers can more accurately diagnose teaching problems and student needs, thus enabling more precise teaching adjustments and improvements.

3.4 Constructing a Diversified and Personalized Talent Cultivation Model

Traditional education models can no longer meet the diverse and individualized demands for talent brought about by social and economic development. Therefore, constructing a diversified and personalized talent cultivation model has become a core task of higher education reform. First, from an educational perspective, a diversified talent cultivation model emphasizes the cross-disciplinary integration of knowledge from various fields. Higher education should break down the barriers between departments and promote collaboration and integration among disciplines. This can be achieved by establishing interdisciplinary courses, research projects, and workshops, encouraging students to acquire knowledge from different fields and learn how to apply this knowledge to solve complex real-world problems. For example, combining engineering and sociology can cultivate engineers who are both technically proficient and socially responsible; combining business and environmental science can produce entrepreneurs who understand business operations and can promote sustainable development. Second, from a psychological perspective, a personalized education model emphasizes tailoring learning plans to students' individual characteristics and interests. This requires educators to deeply understand students' learning styles, abilities, and career plans, and then provide educational resources and guidance that meet individual development needs. Modern educational technologies, such as artificial intelligence and big data analysis, can play a significant role in this process by analyzing students' learning data to recommend the most suitable learning paths and resources for them. Additionally, implementing a mentorship system and career planning services are effective strategies to support personalized learning. Finally, from a management perspective, achieving a diversified and personalized talent cultivation model requires higher education institutions to adjust their organizational structures and management mechanisms. This includes optimizing resource allocation, such as directing more resources towards the construction of open classrooms, laboratories, and innovation practice bases. By creating a more flexible and supportive environment, institutions can better accommodate diverse and individualized educational needs.

3.5 Promoting Flexible and Diverse Teaching Methods and Technologies

In the current rapidly changing educational environment, higher education institutions face the ongoing need to improve teaching methods and adopt new technologies to meet diverse learning needs and prepare graduates for the future. First, from the perspective of educational technology, modern information technology provides a wealth of resources and tools, making teaching methods more flexible and diverse. For example, utilizing virtual reality (VR) and augmented reality (AR)

technologies can create immersive learning environments, allowing students to conduct experiments or experience complex engineering and medical processes in virtual scenarios, thereby enhancing understanding and memory. Additionally, the application of artificial intelligence and machine learning, such as through intelligent tutoring systems that offer personalized learning suggestions and resources, can help students learn at their own pace and style, better adapting to their individual learning needs. Second, from the perspective of educational psychology, research in cognitive and behavioral sciences supports the importance of diverse teaching methods. For example, project-based learning (PBL) and problem-based learning (PBL) not only improve students' practical skills and problem-solving abilities but also promote their critical thinking and self-directed learning. Through these methods, students can learn theoretical knowledge by solving real-world problems, making the learning process more relevant and motivating. Finally, from a sociological perspective, flexible and diverse teaching methods contribute to educational equity. For example, offering online courses and remote learning options can help students who are geographically remote or unable to attend classes due to economic reasons access high-quality educational resources. Additionally, providing courses in multiple languages can support non-native students' learning, ensuring equal educational opportunities. From the perspective of educational management, flexible and diverse teaching methods require continuous professional development and support for teachers.

4. Conclusion

In summary, higher education management practices analyzed from a multidisciplinary perspective offer a range of innovative management strategies and methods to adapt to the rapidly evolving and diverse global educational environment. When implementing diversified and personalized educational approaches, educational administrators should consider the comprehensive application of various disciplinary theories and technologies to optimize educational quality and enhance students' overall capabilities.

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