Opportunities, Challenges, and Strategies for the Development of Online Teaching among University Faculty in the Post-Pandemic Era

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Abstract

The widespread adoption of online teaching in Chinese universities during and after the COVID-19 pandemic has introduced both opportunities and challenges for faculty members. This paper explores innovative approaches to enhance the training methods and mechanisms for university faculty, efficiently utilizing information technology in teaching, and improving teachers’ awareness and capabilities. The analysis focuses on the opportunities and challenges faced by university faculty in the post-pandemic era and provides targeted recommendations to address these issues, aligning with the demands of Education Informatization 2.0.

Keywords

Post-pandemic era, University faculty, Online teaching.

1. Introduction

The global impact of the COVID-19 pandemic since 2020 has led to profound changes in various sectors, including politics, economics, culture, and education. Embracing the uncertainties of a post-pandemic world, this paper examines the challenges and opportunities for university faculty in China regarding the widespread adoption of online teaching. As society transitions into the post-pandemic era, characterized by a shift from “offline teaching” to “blended online and offline teaching,” this paper analyzes the implications and outlines strategies for university faculty to adapt to the demands of Education Informatization 2.0.

2. Overview of University Online Teaching Development

Prior to the COVID-19 pandemic, Chinese universities had already made significant strides in online teaching initiatives, particularly with the advent of Massive Open Online Courses (MOOCs) in 2013. However, the pandemic accelerated the adoption of online teaching across the nation. The shift to cloud-based teaching platforms and the integration of various online education tools transformed traditional classroom boundaries, fostering a more open and inclusive approach to education.

3. Opportunities for University Faculty in the Post-Pandemic Era

Objective Opportunity: Normalization of Pandemic Prevention

The normalization of pandemic prevention efforts will persist for several years, driving a transformation in education models. The integration of online and offline teaching methods, previously considered supplementary, is now becoming the dominant teaching model during pandemic resurgences.

Policy Opportunity: Government Support
Government policies issued by the Ministry of Education emphasize the deep integration of information technology and education. This includes the promotion of high-quality online education resources and the goal of achieving in-depth integration of modern information technology and education by 2022.

Technological Opportunity: Web3.0 Era

The emergence of the Web3.0 era, characterized by semantic, intelligent, and mobile features, presents new possibilities for online education. The widespread application of 5G technology, the Internet of Things, and artificial intelligence redefines the spatial domain where online education occurs.

4. Challenges for University Faculty in the Post-Pandemic Era

Uneven Levels of Online Teaching Proficiency

Some faculty members, particularly those in the humanities, may struggle with adapting to online teaching due to lower levels of information technology literacy. The reliance on new technologies such as the internet, big data, and multimedia places pressure on teachers accustomed to traditional teaching methods.

Loss of Teaching Evaluation Functionality

The post-pandemic era challenges the traditional teaching evaluation system, which heavily relied on in-person assessments. With the emphasis on process-oriented evaluation, the effectiveness of traditional grading systems based on attendance, discussions, and final exams is diminished. Faculty members face difficulties in determining appropriate assessment proportions and criteria for online teaching.

5. Development Paths for University Faculty in Online Teaching in the Post-Pandemic Era

Focus on Improving Faculty Information Literacy and Competence.

In the first place, to enhance faculty’s online teaching capabilities, there is a need to reshape their teaching philosophy. Reorienting faculty members’ perspectives on online teaching through training, collaborative lesson planning, and creating exemplary classrooms is essential. Establishing specialized research teams for online courses can provide scientific and cutting-edge guidance to university faculty.

Secondly, strengthen Faculty Training in Online Teaching Skills. Continuous training programs conducted by faculty development centers and academic departments are essential to equip teachers with the skills to adeptly use various online teaching tools. Utilizing online peer support, such as one-on-one mentoring, can enhance the adaptability and familiarity of young and mid-career faculty members with online teaching. Overcoming the technological apprehensions of older faculty members is crucial to improve the overall application and proficiency of online teaching.

Lastly, address Faculty Shortcomings in Online Teaching Competence. Given the substantial changes in the online teaching environment, there is an urgent need for faculty to reorganize their teaching experiences and capabilities. Universities should organize collaborative efforts among educational administrators, teaching researchers, and faculty members to analyze and justify the characteristics of online teaching for each course. This approach will enable teachers to choose suitable platforms and teaching methods and enhance their online teaching capabilities, ensuring equivalence in online and offline teaching effectiveness.

Design a Scientific Teaching Evaluation System
Universities should develop a more scientific and effective teaching evaluation system that considers both learning outputs and outcomes. Emphasizing the quality of learning outcomes is crucial in the post-pandemic era, where students access learning materials through various platforms. Implementing a comprehensive system for monitoring the quality of learning outcomes through platform data will contribute to the transformation of higher education teaching evaluation systems.

6. Conclusion

The construction of a "networked, digitized, personalized, and lifelong" education system is the goal of online education. As online education reshapes the spatial domain of teaching and learning, it represents a learning revolution centered on students and facilitated by information technology. The development trends of Web3.0 technology suggest that online education will redefine traditional education and become a crucial support system for constructing a learning-oriented society.

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References


