

The Innovation Research of University Education Management Mode Under Ecology Concept

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Abstract:

The application of ecology in the field of education provides a new idea, vision and method for the research of educational theory in colleges and universities, and also has a profound impact on the mode of educational management in colleges and universities. With the development of society, Chinese university education has achieved greater development. Based on this, introducing ecological concept into university education management can further strengthen theoretical guidance of university education management. This is not only the innovation of education management mode, but also has profound influence on the cultivation of talents in university. This paper briefly expounds the ecological concept, discusses the enlightenment of ecology to the educational management mode of colleges and universities, and probes into the innovative path of efficient educational management mode under the ecological concept.

Keywords:

Educational Management Mode, Ecology, Revelation, Innovation Path

1. Introduction

Ecology itself mainly studies the mechanism and law of interaction between environmental system and living system. In the field of education, ecology mainly seeks the optimal function and structure of educational ecosystem by studying the efficiency and structure of educational ecosystem, which is also known as ecology of education. Under the current background of The Times, the existing educational management mode of colleges and universities has been difficult to adapt to the needs of social development and the development of colleges and universities, so it is urgent to seek innovation and reform in the management mode. The cross-field application of ecology provides new ideas and directions for the innovation of efficient education management mode. Combining with the basic principles and laws of ecology, the mode of college education management can be further optimized and the quality and level of college education management can be promoted.

2. Ecological Overview

2.1. Connotation

The original research object of ecology is the mechanism and law of interaction between environmental system and living system, which emphasizes natural balance, wholeness, systematism and coordinated evolution. The application of ecology in the field of education was initially put forward by Lawrence Cremin in the United States, who formally proposed the concept of "ecology of education" in his book *Public Education*. The ecology of education mainly takes the phenomena in the field of education as the research object, and uses the basic principles of ecology such as coordinated evolution, natural balance and harmonious coexistence to analyze the underlying causes, and finally puts forward the corresponding optimization strategies to promote the development of educational activities in the right direction. [1]

2.2. Features

The basic characteristics of ecology of education are mainly manifested in the following aspects: first, integrity, which is one of the most basic characteristics of ecology of education. The ecology of education believes that education is a part of the whole society, which is in constant exchange with the social environment, including information, energy and material, and the two are interdependent. Education is a subsystem of the whole society, and the change of any element in the external environment will have an impact on the ecology of education. Therefore, the ecology of education emphasizes that it should be based on the whole, make overall planning from the macro level, correctly grasp and deal with the relationship between education, the whole society and other subsystems, so as to achieve the optimal state of education. The second is transcendence. As the leader of educational labor, teachers should not only contact the information from the objects of education, but also contact the knowledge accumulated by predecessors and others, and make use of all the cultural achievements created by human beings. Their labor products are the workers of the future society. [2] This long labor process determines that the ecological production of education is a production process with a long cycle and strong creativity. In the study of ecological education, there should be certain preemptive, planning and foresight. Only by grasping the trend of future development and adapting to the development of social economy, politics, culture and science, can a more reasonable and ideal educational ecosystem be established. The third is intersectionality. Educational ecology is a new subject formed by the integration of ecological theory and educational theory. At the same time, it also involves the knowledge principles of sociology, management science, psychology, structure science and statistics and other disciplines, which is an interdisciplinary and cross-field research activity. [3]

3. The Enlightenment of Ecology to the Mode of University Education Management

At the present stage, with the progress of social development and the updating and iteration of science and technology, the educational management mode of colleges and universities is also adjusted and changed accordingly, which is not only the result of the development of colleges and universities, but also the impact of social changes on colleges and universities. The principles and laws of ecology have important implications for the education model of colleges and universities. For example, the principle of natural balance emphasizes that human and nature should maintain a

harmonious and balanced state, which has practical significance for the education management of colleges and universities. For example, in the course setting, the balance between theoretical courses and practical courses should be maintained, the combination of science and engineering should be emphasized, and the mutual penetration of science and art should be promoted, so as to achieve a dynamic balance. Only in this way can the all-round development of students be promoted, and the students should have both a solid theoretical foundation and excellent skills and qualities. Another example is the virtuous cycle principle, which emphasizes the realization of a virtuous cycle between human and the natural environment to form an interdependent relationship, which is also of important reference value for the educational management of colleges and universities. For example, in terms of personnel training mode, it is necessary to first strengthen students' theoretical knowledge learning and improve their theoretical level. Secondly, it is necessary to extend and expand the teaching content, break through the restrictions of classroom teaching and introduce production practice activities, [4] so as to make the abstract content concrete, so that students can verify the theoretical knowledge they have learned in the practice process and strengthen their understanding of theoretical knowledge. At the same time, they also reflect on their shortcomings in theoretical learning, and then devote themselves to theoretical learning again, forming a virtuous circle and promoting the continuous improvement of students. Another example is the law of limiting factors. Ecological theory holds that limiting factors exist objectively and show various forms. In colleges and universities, teachers, campus environment, hardware and software facilities are all limiting factors. For example, the shortage of teachers in colleges and universities will inevitably limit the enrollment scale and teaching quality of colleges and universities; otherwise, it can promote the expansion of the scale of colleges and universities. In addition, the theory of ecology of education plays an important role in guiding the major opening, curriculum setting, teaching content, teaching method and personnel training mode in colleges and universities, which requires the continuous exploration and research of college administrators, so as to promote the deep integration of ecology of education and education management in colleges and universities. [5]

4. Innovation Path of University Education Management Mode Under Ecological Concept

4.1. Enrich the connotation of education management based on ecological concept

College education management is a macro concept, which involves all aspects of the development of colleges and universities. Integrating ecological concept into college education management can further enrich the connotation of education management. For example, based on the ecological concept, the content of ecological civilization construction can be introduced into the education management of colleges and universities, and on this basis, the construction and management of green campus can be put forward, and then the construction of ecological campus can be promoted. In addition, contents such as sustainable development, ecological concept, green concept and holistic concept can also be introduced into the educational management of colleges and universities, so that the educational management of colleges and universities is not limited to teaching, and the breadth and depth of educational management can be increased. [6] As the highest institution of higher learning, the cultivation of talents should not be limited to the cultivation of professional knowledge and skills, but should also cultivate students' moral quality, improve their

personality and broaden their horizons, so as to cultivate outstanding talents in line with the needs of social development and fulfill the basic functions of colleges and universities. [5]

4.2. Innovative educational forms based on ecological concepts

Different from compulsory education, there are significant differences in teaching objective design, curriculum setting, teaching mode, teaching content and students' cognitive law. [6] From the perspective of objective conditions, the innovation forms of educational management mode in colleges and universities based on ecological concept are more diversified, and there is no need to stick to a certain form or channel. College education management itself has clear goals, contents and approaches, so it should give full play to this advantage in practice. For example, in ecological civilization education, it can integrate environmental protection, sustainable development, low-carbon concept and other contents, and carry out specific educational activities in the form of campus practice, ideological and political education, voluntary activities and vacation practice. [7] This not only conforms to the characteristics of college education and the development law of college students, but also clarifies the educational objectives and connotations, and highlights the characteristics of The Times. The integration of ecology in college education management provides diversified paths and forms for the innovation of college education management mode. Colleges and universities should combine their own characteristics, adapt to local conditions, and actively innovate education forms, so as to promote the high-quality development of college education. [8]

4.3. Optimize the talent training model based on ecological theory

Based on ecological theory, both curriculum and major Settings in the talent training mode of colleges and universities need to follow the rhythm of education and the law of social development, while the design of teaching content and teaching methods should follow the principle of the most appropriate and the law of tolerance, as far as possible close to the actual situation of students, to meet the needs of individual development of students and social development. For example, in the setting of majors, generally speaking, basic theories of majors are important constraints for the establishment and development of branch disciplines. [9] Basic theories of majors cover basic information such as history and current situation of disciplines, as well as major frontier trends, unique languages and research methods, etc. Colleges and universities must fully study these contents when setting up majors. In addition, social development needs and the basic laws of education need to be taken into account. In the setting of teaching content, we must ensure the balance between theoretical courses and practical courses, follow the principle of the most appropriate, and also consider the acceptance of students and follow the tolerance law in ecology. By learning from and applying the relevant principles and laws of ecological theory, it can promote the optimization of college personnel training mode and promote the development of college education management in the right direction. [10]

5. Conclusions

To sum up, the integration of ecological theories and educational theories has formed a new discipline, namely ecology of education. This interdisciplinary integration provides the basic theoretical basis for the reform and innovation of

educational management mode in colleges and universities, while the basic principles and laws of ecology also open up a new path for the innovation of educational management mode in colleges and universities. As college education managers, in practical practice, they should not be confined to the form or way of a certain city, but should combine the status quo and development needs of colleges and universities, innovate the form of ecology, constantly enrich the connotation of college education management, innovate the form of college education, promote the optimization of college talent training mode, and realize the deep integration of ecological theory and college education management. We will promote the long-term development of institutions of higher learning.

Conflicts of Interest

The author declares that there is no conflict of interest regarding the publication of this article.

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