Student's Personal Knowledge Management Model under the Complete Credit System

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Abstract: Schools across the country are actively exploring the reform from the "school year credit system" to the "full credit system". The full credit system is mainly characterized by elective system, tutorial system and flexible academic system. While paying attention to students' professional foundation and ability training, it also emphasizes the cultivation of students' personality. The cultivation of innovative talents is the core task of higher education. How to implement the cultivation of innovative talents and ensure and improve the quality of talent cultivation in the process of implementing the full credit system is an urgent research topic. With the continuous deepening of higher education reforms, the full credit system, as a kind of education management system that encourages students to be self-directed, is an important component of the talent training system in universities and the main trend of the credit system reform. The knowledge economy promotes the development of knowledge management. With the development of digital technology, portable personal learning tools and wireless network technology have begun to enter the lives of learners. The mobility, ubiquity, and seamlessness of learning have become the focus of leading a new round of learning revolution, and the application of personal learning environment Shows an increasing momentum. According to the characteristics of students, effective knowledge management methods should be adopted to construct a dual-model structure of personal knowledge management.

1. Introduction

The full credit system is currently a basic education and teaching management system in many universities in many countries, and it is also an inevitable trend and urgent requirement to adapt to the reform and development of university education and teaching management mode [1]. After the implementation of the full credit system, it broke the rigid pattern of university teaching management, and played a positive role in respecting individual differences of students and giving full play to their interest in learning. In today's society where information knowledge is "exploded", personal knowledge management ability is one of the basic skills for individuals to survive and develop in society. It is necessary to promote the mutual transformation of explicit knowledge and tacit knowledge, integrate one's own information resources, so as to update and improve personal professional knowledge and learning ability as well as adaptability and innovation ability [2]. How should students learn to adapt to society? The author believes that strengthening the training of students' knowledge management ability is an important way.

2. Under the Management of the Full Credit System, the School Improves the System

The academic year credit system is a teaching management system that requires both academic year and credits to be satisfied at the same time to graduate. You can freely choose the length of graduation, arrange a study plan, and complete the required credits for graduation within a certain number of years to obtain a degree and graduation certificate [3]. Under the condition of the full credit system, the education management of students should break the neat and single teaching management system of the school year system, change process management to goal management, and change performance management to credit accumulation management, fully mobilize students' initiative and enthusiasm, and meet students' different personalities The needs of development, pay

attention to the individualized training and development of students. Many schools in China have accelerated the reform of the credit system, focusing on promoting the overall development of students, stimulating students' interest and potential in learning, and exploring innovative models of student management under the full credit system.

2.1 Establish a College Teaching Alliance to Share Teaching Resources

The prerequisite for the implementation of the full credit system is that colleges and universities have abundant curriculum resources for students to choose freely. Under the condition of the full credit system, students have the right to choose courses and teachers [4]. In the traditional education and teaching mode, teachers occupy a dominant position. Classroom teaching is often indoctrination, duck-filling, etc. Students only passively accept the content described by the teacher and become a memory tool. Innovate the ways of student education and set up freshman entrance education courses. Under the conditions of the credit system, it is difficult to find a unified time for centralized education for all students. This poses a challenge to the systematic and standardized freshman enrollment education. In response to this situation, colleges and universities should give full play to the role of classroom education and provide systematic education for freshmen. Entrance education courses. Judging from the current actual situation of universities in our country, most universities are unable to increase curriculum resources in large quantities in a short period of time [5]. High-quality courses with rich teaching content and frequent knowledge updates, as well as outstanding teachers with serious teaching attitudes and diverse teaching methods are popular among students, and the school gives them great commendations and material incentives. , In the traditional education and teaching mode, the classroom form is too rigid and sluggish, and the classroom teaching is relatively dull and uninnovative. The result of such classroom teaching is that the students who are trained do not have the innovation, initiative and enthusiasm of learning, which greatly restricts The ability of students to learn independently and the exertion of individual initiative. The full credit system teaches practical knowledge of university study and life, highlights the harmonious development of personality and practical innovation, is highly targeted and instructive for the study and life of university students, and is conducive to freshmen adapting to university life as soon as possible, so that they can enter the upper grades one year later. Lay a solid foundation for life. Local colleges and universities can reach an agreement, establish college alliances, create a teaching resource sharing platform, open up channels for communication between colleges and universities, realize the sharing of a series of teaching resources such as courses, teachers, venues, and equipment, and improve the utilization of limited resources. Make up for the lack of college curriculum resources [6].

2.2 Improve the Class Tutor System and Optimize the Curriculum System

Students' self-planning and autonomous learning ability are one of the key factors that determine the success or failure of the full credit system reform. Therefore, it is particularly important to cultivate students' autonomous ability. The unified academic year system is equipped with a class teacher who is mainly responsible for the ideological education and daily management of college students; the elective system under the full credit system, students are eager for timely help and guidance in the construction of knowledge structure and college career planning. [7]. In the teaching process, teachers do not impart knowledge to students unilaterally, but make progress together. Students should learn from each other while answering questions and solving puzzles in teaching activities, and learn from each other's strengths. Improve the class tutor system, equip each class with at least one class tutor, and provide professional introduction, career planning advice and course selection guidance during the student process, especially guide the selection of courses across disciplines, so that students in different disciplines can integrate knowledge The field has been expanded and the overall quality has been enhanced. The work of the head teacher is organized by the student management department, and seldom pays attention to the student's course selection, performance status and academic progress, which causes the student guidance service to be out of touch with the academic and ideological and life. In consolidating old knowledge and exploring new knowledge, teachers inherit, develop and explore new knowledge while inheriting

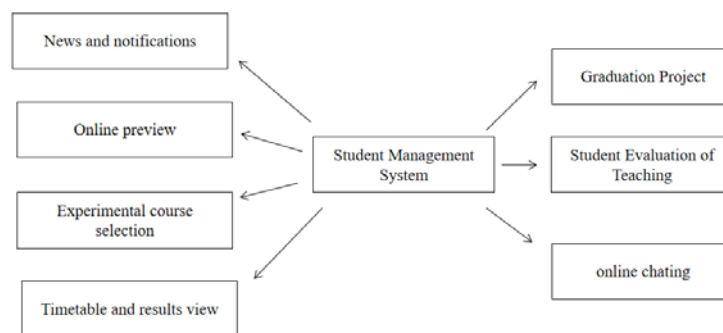the essence of knowledge [8]. The student management system is shown in Figure 1.

Fig.1 Student Management System

Optimize the curriculum system. The courses can be divided into three categories: main course group, professional course group, and auxiliary course group. The main course group lays a solid foundation, the professional course group guides the direction, and the auxiliary course group expands the quality [9]. Incorporate the work responsibilities of the class teacher into the work responsibilities of the academic tutor, combine them into one, and subordinate to the leadership of the student management department, carry out the guidance service of student affairs under the guidance of the full-time counselor, and integrate the counselor's ideological education and daily management of the students Effectively integrate the guidance of students' course selection and professional learning with academic tutors. A diverse, autonomous and competitive teaching team can better promote the formation of campus cultural atmosphere. To help students grow up in a comprehensive and healthy manner in terms of thinking, learning, and self-development under the background of the credit system, and build a dual-track guidance service model that combines the management of tutors and counselors. "To improve the overall quality of teachers, the personality charm of teachers is mainly manifested in the individual's ideological and moral level and innovative consciousness, thereby forming a subtle influence on students' innovative education and entrepreneurial education." Colleges and universities should also formulate relatively flexible training programs, break the original academic year restrictions, reduce the hours of required courses, and improve the quality of elective courses. The number of hours of a single course can be reduced, but the content should be integrated to create conditions for students to choose courses freely[10] .

2.3 Strengthen the Construction of Teaching Management Team

Expansion and upgrade of the relevant institutions responsible for teaching operation management under the Office of Academic Affairs, and turn them into a teaching operation management center directly under the management of the school, with a dedicated person responsible for the teaching operation management of the whole school. Under the full credit system, students have a high degree of autonomy and freedom in learning. It is very difficult for counselors and academic tutors to develop ideological education and academic guidance for students, and their influence and restraint on students will be reduced [11]. The academic evaluation and assessment system is an important means and method to identify innovative talents, which affect the development of social economy, politics and culture. Now the focus of the university talent training model is mainly on various certificates and the scores of various majors. The society and the school The cultivated students lack a sense of responsibility, sense of honor, professionalism, innovation, humanistic spirit, and work ability and accomplishment. They lack an effective evaluation and assessment system. In the past, the carrier of student ideological education was the class collective. With the implementation of the credit system, the original one class timetable has become one class timetable for each student. Students use the courses as the link to form a changeable group of listening classes. The same class (group) formed by the same teacher at the same time and place is called "curriculum class". Expand the number of teaching operation

management personnel in secondary colleges and teaching and research sections, appropriately reduce the pressure of single-person work, and improve the quality of work. With the popularization and optimization of mobile terminals, teachers and students can communicate and exchange information with each other to get timely feedback from each other immediately, without being restricted by time and space, truly realizing all-weather barrier-free guidance and services for students, and real-time student management services. And high efficiency [12]. The traditional academic evaluation and assessment system has many shortcomings, which are inconsistent with the connotation and characteristics of the cultivation of innovative talents, and to a large extent restrict the development of students' personality and the cultivation of innovative spirit and innovative consciousness, which affects the improvement of education and teaching quality. Courses in the same discipline can be organized into courses, and in different disciplines, student management committees can be established to establish a course organization system. Conduct regular or irregular professional training in management and pedagogy for on-the-job teaching management personnel, conduct learning and seminars, and enhance the comprehensive ability of teaching management personnel.

3. Student Personal Knowledge Management under the Full Credit System

3.1 Improve Information Literacy

In the era of information knowledge economy, the degree of personal acquisition and use of knowledge determines to a large extent personal value. Information literacy is an individual's comprehensive ability to recognize when information is needed, to be able to retrieve, evaluate, and effectively use information, including: keen awareness of information, the ability to correctly evaluate and identify information, etc. Knowledge management is the unity of subject and object. The famous futurist Toffler believes that the content of knowledge should include "information, data, images, imagination, attitudes, values and other social symbolic products" [13]. It can be seen that knowledge includes book knowledge and non-book knowledge. Students' information awareness is weak, their information ability is poor, and they will not use the Internet and CD-ROMs to obtain information. The knowledge management system is divided into three levels according to the difference of the subject type, and personal knowledge management belongs to the category of micro-level. According to the way of acquiring knowledge, knowledge can be divided into tacit knowledge and explicit knowledge. Cultivate information literacy through professional education. Cultivate students' self-education ability, so that students can improve their reading ability, analysis and generalization ability while receiving subject education. The object of knowledge management is mainly manifested as knowledge content and knowledge process, and the manifestation of knowledge content can be summarized as general form, commodity form and capital form. The development process from information to wisdom is shown in Figure 2.
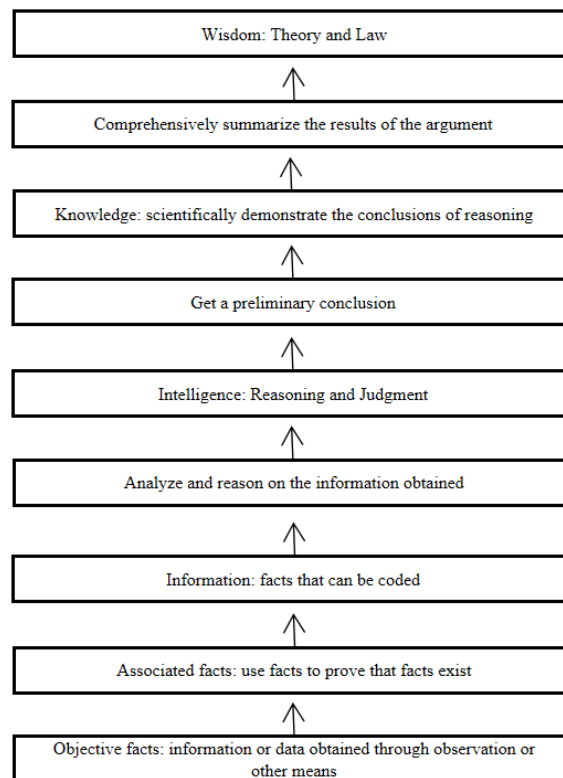
Fig.2 The Development Process from Information to Wisdom

Knowledge that can be clearly reflected and stated is called explicit knowledge. It refers to the knowledge that has been compiled and can be clearly expressed in formalized and systematic language. The expression can be written statements, digital expressions, enumerations, manuals, reports, etc. Courseware etc. Let students systematically learn and master the basic knowledge and basic skills of information retrieval, understand the characteristics and functions of various literature information sources, and focus on the methods of CD-ROM database retrieval and network retrieval. Knowledge network system is a dynamic mechanism and organizational model for knowledge production, communication, update, application, and re-creation. It emphasizes the interaction and connection between functional departments within the organization, with other organizations, and between people [14]. Tacit knowledge is highly personalized, involving everyone's experience, values and beliefs, and these things are difficult to formulate and clarify. Tacit knowledge cannot be reflected and stated clearly. The library is the best place to cultivate students' information literacy. It must coordinate with the school's teaching reform to adjust the structure of the book collection and give play to its cultural function of integrating information and education functions.

3.2 Improve Your Own Knowledge System Architecture

The knowledge system framework is simply the framework for storing knowledge. Establish a conceptual framework for personal knowledge management skills, including the construction, organization, and sharing capabilities. Everyone has their own interests and hobbies, so they should acquire knowledge based on the characteristics of their own knowledge structure. The knowledge structure of the system helps to effectively store and quickly retrieve the data collected by oneself in the future. Construction ability refers to the ability to edit digital information in various formats, the ability to label and automatically extract integration, etc.; the ability to organize refers to the ability to retrieve, store, classify and evaluate various information; the ability to share refers to the connection with others , Management and cooperation, and the ability to exchange and distribute information. Schools should provide an excellent environment for student knowledge management. Knowledge should be classified according to one's own needs, which can be classified according to the professional subjects studied, or refer to the classification method of library literature. Establish

a classification framework for social software based on knowledge construction and user participation. You can't do things without purpose. Doing knowledge management is to improve your competitiveness and make you have strong survivability in society. This requires a certain period of time to evaluate your knowledge management, maximize your strengths and avoid weaknesses, and be positive. The adjustment to make knowledge management more effective. Personal knowledge management software helps to store, organize, mark, annotate, share and collaborate knowledge resources with others. After completing the initial setup of the personal knowledge system structure, the biggest difficulty in knowledge management lies in "persistence", that is, constantly updating and maintaining the personal knowledge base on the basis of learning new knowledge and mastering new technologies, and adding new ones according to personal needs Knowledge, delete, modify and update part of the knowledge.

4. Conclusions

The implementation of the full credit system is based on students' interests and career planning, and training students according to their needs, which is conducive to creating applied talents that adapt to social development. The education management of students should further emancipate the mind, proceed from the needs of students' growth, and strive to improve the methods and methods of work, so that the education and management of students should be transformed from "education and management" to "service and guidance". In the era of knowledge economy, the desire for knowledge and the establishment of lifelong learning concepts have increasingly become social consensus, and the impact of knowledge is also a double-edged sword for personal growth. For students, the life stage they are in and the way they receive talents determines that they need to strengthen the cultivation of personal knowledge management capabilities. Students can summarize the effective methods of personal knowledge management, communicate with others more, find more opportunities in knowledge application and innovation, and exert their personal value to a greater extent.

5. Acknowledgment

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