The Management Mode of Information Resources in Colleges and Universities from the Perspective of Knowledge Management

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Abstract. With the continuous development of teaching quality and connotation construction, the management of information resources in colleges and universities should move forward in the direction of knowledge management, make full use of modern information technology, integrate and optimize the information resources of colleges and universities, improve the utilization rate of information resources and enhance the overall competitiveness of colleges and universities.

Introduction

With the global economic integration, the increasingly fierce competition, knowledge has become more and more important capital, and thus knowledge management, which focuses on knowledge sharing, knowledge innovation and knowledge application, is more and more favored by all kinds of enterprises and organizations. Knowledge management has brought real benefits to the enterprise, to help enterprises win and maintain a competitive advantage in the fierce market competition. Enterprise implementation of knowledge management has been effective. As an organization of higher education institutions, we should walk in the forefront of knowledge management, optimize the management of explicit knowledge, and promote the excavation and sharing of tacit knowledge, so that it is better for colleges and universities to innovate and develop services.

1. The Connotation of Knowledge Management

The connotation of knowledge management includes two aspects. On the one hand refers to the management of information, information management is the deepening and development. Knowledge is the product of deep processing of information. The methods of knowledge management are more advanced and perfect than information management. It makes full use of information technology to make knowledge be recognized, processed and disseminated in information system and effectively provide users with it. This is the management of explicit knowledge. On the other hand, it is a kind of cognitive process, which exists in the information of the user. Knowledge is not only from the encoded information, but also a very important part of the human brain. The important task of knowledge management is to explore this part of the non-coding knowledge, through the promotion of knowledge coding and the strengthening of interpersonal interaction, so that non-coding of personal knowledge can be fully shared, using collective wisdom to improve the strain and innovation, to improve organizational competitiveness [1]. This is the management of tacit knowledge.

The rise of knowledge management not only enriches the connotation of modern organization and management, requires all kinds of organizations should be people-oriented, pay attention to knowledge innovation and learning organization, but also has a great influence on the management scope, goal, mode and configuration of information resources [2].
2. Types of Information Resources in Colleges and Universities

The organization of colleges and universities is a special group of knowledge. It is the creator of knowledge and the creator of knowledge. It is based on the pursuit of knowledge and the innovation level of knowledge information in colleges and universities, which determines the development prospect of a university. Class information resources in the organization of colleges and universities are the important information resources [3]. The realization of the management objectives of colleges and universities is mainly dependent on the effective operation of management information circulation which revolves around knowledge transfer and knowledge creation. The flow of information generated by the process and the state of the information is usually the main basis for management decisions. Therefore, for college organizations, its information resources are the combination of knowledge information resources and management information resources. Both the knowledge of information resources and the management of information resources include explicit knowledge and tacit knowledge.

3. The Main Pattern of Knowledge Management in Colleges and Universities

As the Internet part of the China Education and Research Network CERNET, since 1995 through the national acceptance, so far, the national institutions of higher learning have established their own campus network, and as a basis, to build their own management information and Knowledge class information resources.

3.1 Management of information resources management model: explicit knowledge management

Hypermedia management model. The information resources that are built and maintained on the home of the school campus of CERNET generally include school profile, history, current leadership, institutional setting, department setting, discipline setting, scientific research, school news, specialist and postgraduate education and other general information, and through the hyperlinks issued by the school administrative departments, the faculty of the notice documents, enrollment employment, recruitment information and so on. This information through the CERNET to the Internet publicity and distribution, opened with the social contact window, help the school's external publicity, functional departments and departments between the timely transmission of information, communication, communication, the school policy information on the school timely get and so on.

Database management model. In the management process, by the school management agencies, the faculties of the party and government management, teaching, research, personnel, infrastructure, equipment, publishing, foreign affairs, accounting and other information, coupled with the domestic and foreign schools with a variety of the preservation of the value of other information and school individuals in their non-job activities in the formation of information, generally through the corresponding system management software to build a special database to manage it, and gradually accumulate the university archives information resources to form the school characteristics of information resources [4]. These characteristics can reflect the history of the school functions and business activities of the development, it also represents the school's level of development and development direction. Such as the school's scientific research file contains the scientific research project declaration and approval process, award-winning situation, identification materials, research process, the results of the tracking process, as well as international and domestic professional publications published in various academic papers and other materials, the level of scientific research and the school in the community visibility and academic status of the original information repository; school equipment and equipment provided by the school's scientific research conditions and environmental information, which to some extent also reflects the level of development of the school; the school's teaching business and personnel files on behalf of the school's talent training and talent structure information, etc.
3.2 Management mode of management information resources: management of tacit knowledge

In the management process, each manager has its own management experience and special skills, that is, the hidden information in the management information. The management model of these tacit knowledge in the university is mainly managed through free text: or through face-to-face communication, such as the exchange of experience, the organization of small seminars, etc., or through the form of research incentives to stimulate managers to sum up their management experience, and then the exchange of results, management experience into electronic documents, free text to be managed to archive, to promote the management of managers to share and improve the management level.

3.3 The management mode of knowledge information resources

As we all know, college teachers are both producers of knowledge and knowledge. How to create convenient conditions for college teachers to provide a wealth of knowledge resources and relaxed communication environment in order to give full play to the initiative of college teachers to create more knowledge and information to enhance the core competitiveness of colleges and universities is a very important issue.

The Management of explicit Knowledge in Knowledge Information. At present, the management of explicit knowledge in knowledge-based information is mainly based on the library, and through the construction and integration of knowledge information resources, the information service level of teaching and research is continuously improved. The main measures are:

1. Strengthen the construction and management of paper document resources through the construction of bibliographic database and characteristic collection resource database, and provide convenient bibliographic inquiry service in the form of electronic data.
2. Some colleges and universities began to implement the integrated management of database information resources, that is, to provide a unified search interface. This is the most advanced management model, but also the future development trend of electronic resources retrieval.

From the horizontal point of view, is the purchase of domestic and foreign databases for integrated management, the ultimate goal is a unified search platform, one-time user authentication, seamless connection between different systems and a complete service system, so that readers a search, you can find all kinds of literature to complete the collection, the output of all the search results, the reader is aware of a unified collection system, such as CALIS unified retrieval system. From the vertical perspective, it is the integrated management of Internet book resources, such as books and periodicals, to achieve regional or even nationwide resource sharing, such as Jiangsu Huifen Software Co., Ltd. developed the “virtual joint directory system”.

3. Building a digital library. Colleges and universities to the library and the Internet on a variety of digital resources or non-digital resources as the center, to provide readers with convenient and efficient knowledge service mechanism for the purpose of taking a set of advanced, practical and efficient measures to digital resources for processing and construction, storage and management, access and service. It is composed of a multiple distributed, large-scale, interoperable heterogeneous digital information resource library. It is a set of information resource location service system based on digital environment, which enables users to get information content service through network.
4. Building a virtual online library. Library through the organization of personal, according to the school discipline construction characteristics and the characteristics of the user needs of the school, through the campus network and the public network connection, the Internet to find the right resources, and then the resources of the title and address into their own bibliography, valuable or even full-text and bulk download, and then to the system organization, and finally to the Internet users to provide a variety of ways to browse or query [5].

The Management of tacit Knowledge in Knowledge Information. At present, the management of tacit knowledge in knowledge class information is less based on modern information technology. In this case, the information function of the information resource management should be specific,
should focus on the technical operation level from the design service program, to change the macro control for the micro-technical support. Its core is for the informal channels of information exchange system and management of the protection, so that different information needs of personnel information to be smooth expression and feedback to protect the organization within and outside the extensive exchange of free environment. From a specific operational level, this is a management technology issue that includes a clear understanding of the meaning and scope of the informal information exchange channel, the establishment of a variety of communication and expression of the platform, such as various discussion groups, interest groups, Conference, Chat Room, etc, but in essence, are a group of groups that have a common interest in a particular topic. In this forum, people can easily carry out multi-directional communication, including a subject field of news, research trends, the latest results release, conversation, doubts, discussions, comments and so on. However, these concrete measures can only be used as a means, and ultimately must be integrated into the whole process of integration, that is, the knowledge of these tacit knowledge extraction, processing and filtering, according to the discipline of internal logic, the formation of a specific knowledge base to achieve knowledge Internalization, so as to provide highly relevant knowledge for knowledge seekers, and to attach importance to discovering the knowledge structure related to specific needs [6]. The management mode can learn from the management mode of explicit knowledge, using free text, theme tree, database, hypermedia way, search engine, etc. to implement its management.

Conclusion

With the continuous development of information technology, modern science and technology to support the university information resource management model is also constantly moving forward, the majority of colleges and universities for the explicit knowledge management is becoming more perfect, and for tacit knowledge support and advance far enough Based on this, the management of information resources in colleges and universities in the future should strengthen the management of tacit knowledge transfer, mining and sharing, so as to ensure the smooth circulation of academic information exchange. At the same time, according to their own conditions, actively planning and implementation of integrated management, improve the integrated information management system to promote the smooth operation of information channels in colleges and universities, so as to promote the transformation of information resources management to knowledge management, and ultimately enhance the internal cohesion.

References


