

Construction of Electronic Textbook and Teaching Reference Platform in University Libraries

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Abstract: The rapid development of information technology has expanded the scope of electronic reading and become one of the main forms of reading in universities in the new era. The construction of electronic teaching materials and reference platforms in university libraries can not only provide students and teachers with a large amount of electronic reading materials, but also deepen the use of information technology and construct a more complete service system for university libraries. On this basis, firstly, the profound content of teaching materials and reference materials, as well as the current situation of building teaching materials and reference platforms, are discussed, and the advantages and disadvantages of current electronic platform construction are analyzed. Finally, measures to optimize the electronic teaching materials and reference platforms of university libraries are elaborated for reference only.

Keywords: Universities; library; Electronic Textbook Teaching Reference

In the teaching process of universities, textbook reference materials have important value and significance, and are also an indispensable source for students and teachers in the learning and practical process. The library is an essential place for universities, and effectively acquiring, analyzing, integrating, and borrowing teaching reference resources is an important task of university libraries. The innovation and transformation of information technology have further expanded the practical application of libraries, while also promoting the proliferation of electronic resources. The vast base of electronic resources includes a rich variety of teaching reference materials. University libraries can effectively absorb and integrate a large amount of teaching reference materials through the construction of electronic textbook and teaching reference platforms. This can not only meet the reading needs of students and teachers for teaching reference materials, but also effectively innovate and improve the service system of university libraries.

I. Overview of Textbook and Reference Services in University Libraries

Faced with an increasingly complex teaching environment, many university libraries have adopted advanced technologies and strategies to meet learning needs. The Library of Sichuan University has actively responded, relying on the support of the academic community to establish a comprehensive electronic learning network platform, providing students with various convenient teaching information, including computers, smart devices, and network resources. Many domestic and foreign university libraries, such as Fudan University, Computer Science and Technology University, and China Ocean University, have searched for over 1000 electronic textbooks in both Chinese and English through in-depth exploration of students' needs, providing them with rich learning guidance and references, while also creating a real-time accessible learning platform for their users. Some schools have even launched smartphone apps, allowing students to easily and happily access information.

Li Lin and Wang Chunyu investigated the WeChat official account of 42 double first-class university libraries in Hebei Province, and discussed in detail the current teaching assistance work of the library, especially the copyright, resources and fees involved, so as to provide effective guidance for the electronic teaching work of the library. According to the investigation by Cai Yingchun and Zhang Lei, there are outdated issues in the establishment of electronic textbooks and teaching aids information systems in over 100 Double First Class university libraries. Chen Wenwen and Zhang Lei pointed out that with the popularization of online classrooms, university libraries must strengthen their role in online classrooms and use them as an effective supplement to better meet students' learning needs.

II. The Problems of Textbook and Reference Services in University Libraries

After research, it can be found that although many universities have taken corresponding improvement measures to enhance textbooks and teaching reference services, there are still some challenges that need to be addressed in the current new situation.

Firstly, most university libraries focus on providing electronic textbooks and reference materials, while neglecting the management and use of paper versions. Although electronic textbooks and reference materials are easy to read and carry, paper textbooks and reference materials are easier to remember. Secondly, currently, most university libraries have not yet launched targeted textbook and reference service platforms, which cannot meet the needs of higher education in the new era. Therefore, establishing a platform dedicated to providing services for higher education teaching has become an important measure for current higher education reform. Thirdly, in order to improve teaching efficiency, textbooks and reference materials should be carefully selected from numerous libraries, and a unified information platform should be established for convenient and efficient retrieval and inquiry. This can increase user concentration and help improve teaching quality. Fourthly, the content of many electronic textbooks is relatively monotonous, with limited options for selection and communication, thus their practical value is not high. For example, many textbook contents are limited to textual form, and some contents are even unsuitable for storage media. Due to the rapid development of information technology, people can obtain information through various means. Therefore, when designing electronic textbooks, special attention should be paid to their compatibility and interactive capabilities.

III. Measures to be taken for the construction of electronic teaching materials and reference platforms in university libraries

1. Deepen the construction of platform content

At present, we should vigorously develop electronic textbooks and teaching materials to meet different needs. These materials not only contain rich knowledge, but also various practical skills, such as laboratory internships, practical exams, practical demonstrations, experimental videos, experimental reports, laboratory investigation reports, and so on. By searching and accessing the internet, it is easy to find a variety of educational resources. However, due to the lack of electronic teaching materials, they must be converted into digital format. However, due to the scarcity of multimedia teaching aids on the internet, it is difficult to provide textbooks that truly meet teaching needs. Therefore, greater energy should be invested in building a comprehensive, diverse, and practical electronic teaching material resource library that can meet students' needs and provide operability.

When constructing electronic textbook reference platforms, universities should collaborate with certain digital resource providers and quickly build electronic textbook reference systems closely related to disciplines on their own online platforms. When constructing educational content, it is not only necessary to comprehensively manage traditional and easily accessible educational resources, but also to add some open educational resources and limited time free training educational resources. In addition, in the face of difficult to obtain excellent electronic teaching materials and reference information, it is necessary to fully respect copyright as the basis and digitize and informatize the content of the electronic version of the teaching materials, so as to better meet the actual teaching requirements. Similarly, attention should be paid to the diversity of forms of teaching reference information, such as classroom teaching plans, outlines, lecture notes, mind maps, etc. adopted by teachers in the classroom, or emerging online electronic educational resources such as micro courses, MOOCs, etc. After the platform collects the above various resources, the library must reorganize and process this part of the information resources, so that the teaching reference information can be used more effectively.

2. The platform should be effectively integrated with online teaching in universities

With the development of technology, more and more universities are taking measures to promote and implement networked education to meet the needs of current social development. Therefore, establishing an education platform that can achieve networking and integrate it with traditional paper-based education models such as online television, online music, online games, etc., to achieve interactive, real-time, and visual networked education, in order to achieve better networked education results. In order to improve educational efficiency, electronic textbooks and teaching aids platforms can be combined with campus networks, allowing students and teachers to easily and efficiently access these tools. This enables them to achieve precise docking with enterprises, easily and efficiently understand the latest knowledge and skills, and fully utilize the advantages of these tools. In order to improve efficiency, the quality of electronic teaching materials and reference platforms in universities can be enhanced through continuous improvement and optimization. I can also improve the efficiency of electronic teaching materials and reference services by regularly publishing and maintaining the latest information in my daily work. At the same time, we also hope to provide high-quality information to enterprises through cooperation and communication, help students acquire the most effective knowledge in their work, and provide the best support for their work. In order to further improve the teaching effectiveness of teachers, platform managers should strengthen supervision so that they can quickly respond to and process various teacher update requests, and organically integrate textbook resources with actual classroom tasks, thereby greatly enhancing the teaching effectiveness of teachers.

3. Regularly push electronic textbooks and teaching reference topics

In order to fully unleash the potential of college students and teachers and enhance their classroom experience, it is recommended that university libraries continuously provide rich, specific, and practical electronic course materials, including various mainstream videos, audios, videos, etc., and timely publish these contents on the internet, so that teachers and students can easily grasp the course content. By applying the latest scientific technology and methods, the library's electronic textbook teaching reference platform will significantly improve existing electronic learning materials and better utilize their information and value. In addition, measures will be taken to improve these materials and ensure their good dissemination and application on the library's electronic teaching materials platform. In addition to constantly paying attention to free teaching materials from various digital resource providers, publishers, and relevant institutions, it is also necessary to actively collect, organize, and compile these contents to help improve the speed of knowledge acquisition for students and teachers. In addition, it is necessary to utilize the precise dissemination technology of literature in university libraries to enrich and improve the content of the library's electronic teaching materials and reference platform.

4. Establish a long-term platform development mechanism

In order to promote the comprehensive quality and professional skills development of college students, higher education institutions must establish a lasting and stable communication channel to achieve two-way interaction in curriculum design and practical activities. In addition, it is necessary to strengthen the coordination between libraries and education departments, share various high-quality teaching materials to meet the constantly changing needs of curriculum design and practical activities. In order to improve educational efficiency, it is planned to build a dedicated database to facilitate students and teachers to access the required content at any time. At the same time, personalized courses and tutoring supplies will also be provided to help them master knowledge more quickly and effectively. By improving educational information technology, we sincerely hope to better support the classroom learning of college students. These improvements include adding more practical information, making the course more attractive, and better helping everyone understand the course content.

In addition, it is hoped that better information technology can be used to support the classroom practice of college students and help them better understand the content of textbooks and further master what they have learned. By improving teaching content and enhancing the real-time nature of teaching tools, they can respond to students' needs in a timely manner and be applied to practical learning environments in a timely manner. In addition, efforts will be made to promote various unique academic papers, institutional information, etc., which will greatly improve the learning experience of universities. In order to improve the accuracy of the library's textbook and reference platform, big data technology should be used to analyze the usage of students and teachers, and various effective methods should be used to ensure the effective implementation of copyright protection. In this way, we can provide them with more accurate resource recommendation services, or stipulate that teaching reference resources are only for teachers and students of relevant teaching courses, or gradually open up teaching reference resources based on actual teaching progress.

Epilogue

In order to adapt to the new situation of higher education curriculum teaching, university libraries must strive to improve the quality of textbook and reference services. This article analyzes the relevant measures and literature research of some domestic university libraries, points out the problems and deficiencies in the library's textbook and reference services, and proposes several ways to build a library undergraduate textbook and reference service platform to address these shortcomings. In order to improve the textbook and teaching reference service platform, the library should establish a dedicated service department, focus on the construction of electronic textbook and teaching reference services, combine the platform with the characteristics of the school, connect with the school's teaching platform, expand the functions and applications of the platform, and carry out resource sharing and cooperation with other university libraries.

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