

THE IMPACT AND DEVELOPMENT OF LEARNING PLATFORMS

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Abstract. The learning platform in higher education is an online tool that facilitates teaching and learning in a virtual classroom through the internet or mobile networks. It tracks students' learning progress and comprehensively assesses their training needs. These platforms are diversified, ranging from B2B2C to online school types, and evolving from teaching support to resource integration. With the advancement of technologies and the increasing demand for learner engagement, the learning platform has undergone significant development. In higher education, its application is widespread, reflecting the national big data strategy's impact.

Keywords: learning platform, higher education, online learning, virtual classroom, teaching support, resource integration, Big Data Strategy.

A learning platform can be defined as an online learning platform. Through computer Internet or mobile wireless network, students teach and learn with teachers in a virtual classroom. Specifically, the learning platform mainly records the course training, examination competitions, test questions exercises, questionnaires and training exchanges that students attend online, so as to realize the full tracking management of students' learning situation and a comprehensive grasp of employees' learning and training needs.

According to the different classification criteria, the learning platforms can be divided into different types. For example, according to its operation mode, learning platforms can be divided into B2B2C platform type, B2C service type, tutoring tool type and online school type. Another common classification method is to divide the network teaching platform into on-demand, interactive and social teaching according to the different teaching interactivity [1].

In addition, with the development of Internet technology, database technology and multimedia technology, as well as the growth of the demand of learners' participation degree, the network teaching platform has also experienced three development stages, from providing comprehensive support for the teaching process, to the organization and management of teaching, and then to the integration with the network teaching resource database and its management system.

The application status of learning platform in higher education is multifaceted. With the implementation of the national big data strategy and the passive need of the separation between teachers and students, the scale of online teaching in universities is growing. At the same time, various online course platforms, such as Xuetang Online and Chinese University MOOC, are also actively carrying out technology

iteration and function optimization to meet the needs of digital reform in China's higher education.

Micro-course, MOC, SPOC and other new teaching modes have been widely applied and explored in higher education, among which mixed teaching has become an important practical way of classroom teaching reform and innovation in colleges and universities. In addition, the Ministry of Education has also implemented the “Digital Strategic Action for Higher Education” and launched a “smart Higher education” platform to solve the problems encountered by learners in their use, such as resource dispersion, data barriers and irregular management [2].

Education formalization has become an important support and display platform for running schools, and teaching formalization has become the main support for talent training innovation in colleges and universities. Therefore, the application of learning platform in higher education will be more extensive and deep in the future.

The influence of learning platform on students' learning effect is multifaceted.

First of all, the learning platform can provide rich learning resources, such as course videos, teaching courseware, academic papers, etc. These resources can help students better understand the course content and deepen the mastery of knowledge points. At the same time, the learning platform also provides online homework, exams and other functions, which can help students consolidate their knowledge and improve their learning effect.

Secondly, the learning platform can stimulate students' interest and motivation in learning. Through online interaction, discussion and other functions, students can communicate with teachers and classmates and share their views and experiences. This interactive learning method can stimulate students' interest in learning and enhance their learning motivation [3].

In addition, the learning platform can also help students improve their self-learning ability and self-management ability. By making learning plans, tracking learning progress and other functions, students can better plan their learning time and progress, and develop good learning habits and self-management ability. This has a positive impact on students' future study and work.

However, the learning platforms also have certain limitations. For example, the learning effect of students is influenced by their habits and ability to use the platform, and some students may lack the experience and skills to use the platform, resulting in poor learning outcomes. In addition, the learning platform may also have some technical problems or security risks, such as network lag, data leakage, etc., which may affect students' learning effect and rights and interests.

The influence of the learning platform on teachers' teaching methods is mainly reflected in the following aspects.

More flexible teaching methods: The learning platform provides a variety of teaching resources and tools, such as online courses, video, audio, etc., so that teachers can more flexibly choose and use different teaching methods.

Personalized teaching: The learning platform can provide personalized learning resources and services according to students' learning conditions and needs. This

provides teachers with more choices and flexibility, which can better meet the learning needs of different students.

Interactive teaching: The learning platform can promote the communication and cooperation among students through online discussion, questions and answers. This helps to stimulate students' interest and motivation in learning, and improve their participation and effectiveness.

Multimedia teaching: The learning platform can provide rich multimedia resources, such as video, audio, etc., to help teachers to present their knowledge and skills more vividly. This helps to improve the students' learning effect and memory ability.

Data-based teaching: The learning platform can provide teachers with more accurate teaching suggestions and services through data analysis and feedback functions. This helps teachers to better understand students' learning situation and needs, and adjust their teaching strategies and methods in time.

Learning platforms are gradually becoming an important tool for personalized learning in higher education. With the development of technology and the demand of education, higher education puts more and more emphasis on the personalized development and learning experience of students. The learning platform uses advanced technology and rich resources to provide strong support for personalized learning in higher education.

First of all, the learning platform can provide personalized learning resources and paths according to students' characteristics and needs. Each student has his or her own learning style, interests and goals. The learning platform provides intelligent recommendation and data analysis, providing students with courses and learning resources that meet their needs, so as to help them better achieve self-development.

In addition, the learning platform also provides students with personalized evaluation and feedback. The traditional evaluation method is often based on exams and homework, while the learning platform uses data analysis technology to make a comprehensive and accurate evaluation of students' performance. This evaluation method is timelier and more personalized, which helps students to timely understand their own learning status, adjust their learning strategies and improve the learning effect [4].

The learning platform focuses on students' interaction and collaboration. In higher education, students need to develop skills such as teamwork and communication. The learning platform promotes communication and cooperation between students through online discussion, group cooperation and real-time interaction, and helps them improve these soft skills.

With the popularity of mobile devices and the development of mobile Internet, more and more learners begin to need and expect to be able to learn anytime and anywhere. Therefore, the collaborative learning platform will pay more attention to the development of mobile applications and provide more convenient mobile learning functions. Learners can cooperate with other learners at any time and at any place to complete the learning tasks together and improve the learning efficiency.

Hybrid learning is a combination of online and offline learning methods, and mobile learning is an important part of it. In the future, the collaborative learning platform will pay more attention to the integration of mobile learning and hybrid

learning, and provide a richer and more diversified learning methods. Learners can choose their own learning methods according to their own needs and learning habits, so as to better realize personalized learning.

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