

# *Research on the Autonomous Learning Mode of College Students Based on Mobile Terminals under the Internet Environment*

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**Abstract:** the advent of the Internet era, while liberating social productivity, has brought great convenience to human social life. At present, Internet technology has been fully applied to our study, work and life. So far, the mobile terminal under the influence of the Internet environment has developed more mature, and mobile terminal and other devices have become the necessities of people's life. In the process of daily travel, people basically have a mobile device. The nationwide coverage of WiFi signals accelerates the spread of the network. Only a small mobile device can complete travel payment, online shopping, signal transmission, etc. At the same time, the advent of the information age has also brought certain factors to the reform of higher education. Taking educational informatization as the research background and mobile Internet as the media, autonomous mutual learning has become an important development direction of the next generation of digital learning. At present, colleges and universities have realized the importance of information-based teaching reform, and have designed and shared the self-learning resource system in the actual teaching reform. They have actively constructed a set of harmonious self-help learning system in the campus, constantly improved the evaluation system of College Students' autonomous learning effect, and created a good learning atmosphere of self-help in university campus, in order to cultivate students' autonomous learning ability.

## 1. Introduction

The advent of the Internet era not only brings great convenience to human social life, but also provides a certain technical basis for the educational reform of universities. At this stage, in order to provide students with a better learning and living environment, many colleges and universities have set up school network for students. The whole campus is basically covered with multiple signal sources, such as telecommunication network, mobile network and Unicom Network, and the teaching equipment owned by university classrooms is gradually developing towards the direction of informatization. Based on the full coverage of WiFi signal inside the campus, students can surf the Internet safely on campus. By using a tablet computer, smart phone, network equipment and so on, they can acquire the knowledge, which will create a good learning environment for students and

help them carry out seamless learning. The fundamental purpose of setting up colleges and universities in China is to cultivate a large number of excellent modern talents for our country, so as to enrich the talent market of our country. Due to the continuous enrichment of contemporary social science knowledge and the acceleration of information dissemination speed, colleges and universities need to find out the key points of teaching reform in time. How to help college students develop good autonomous learning ability in the mobile terminal network environment will become the focus of university education reform. Only by doing the corresponding mobilization work in time, taking mobile Internet as the development medium and encouraging college students to adapt to the new situation of rapid development of science and technology in time, can they update their knowledge base and establish correct ideas.

## **2. Construction Method of College Students' Autonomous and Mutual Learning Mode in the Era of Mobile Internet**

### **2.1 Construction Method of Autonomous Learning Resource System**

In the Internet mobile environment, it is particularly important to establish a resource system of autonomous learning in colleges and universities. So, how to establish the system of autonomous learning resources? Firstly, colleges and universities need to keep up with the pace of the development of the times when formulating some teaching reform measures. Taking the Internet mobile environment as the research background, colleges and universities should do a good job in the reform of relevant core courses of modern education technology center, encourage relevant teachers to do a good job in teaching reform, and actively use Internet technology to open classes for students, for example, teachers can benefit from using the network platform to open some online video courses, resource sharing courses, micro video courses, which requires teachers carry out teaching reform in the form of curriculum resources, learning capacity, classroom interaction mechanism and other areas. Teachers can also cooperate with university libraries to introduce more digital education resources suitable for pilot students' autonomous learning. Secondly, schools need to invest a lot of money to set up some experimental teaching demonstration centers to encourage more teachers to study in the demonstration centers. Finally, under the background of mobile internet teaching reform, schools need to develop more learning resources, so that the designed network teaching system can adapt to multiple operating systems at the same time and all teachers and students can use it together.

### **2.2 The Method of Constructing Autonomous and Mutual Learning Community**

In the mobile terminal teaching environment, the construction of autonomous and mutual learning community among students will promote the common growth of teachers and students, students and students to a certain extent. Using the multi-functional features of mobile terminal network tools, such as QQ, Wechat and other communication tools, teachers can carry out some real-time network teaching by using the interoperability between these devices. In the teaching process, many functions such as voice communication, video demonstration, file sending and long-term file storage can be used. In addition, voice communication can also be carried out in the form of one-to-one, one to many and many to many, which will shorten the distance between teachers and students to a certain extent, making classroom interaction lively and interesting, and users can share their feelings, experiences and ideas in the process. The use of this mobile terminal technology can greatly cultivate students' learning habits of self-help, close the relationship between the two subjects, mobilize students' learning enthusiasm, and make students feel the happiness of mutual learning in communication and interaction.

### **2.3 Construction Method of Evaluation System of Autonomous Learning Effect**

At present, many colleges and universities have realized the advantages of autonomous learning mode. In order to make better use of the advantages of autonomous learning mode, colleges and universities have set up corresponding self-learning effect evaluation system on the current campus teaching situation. The function of the system is very complete, which can monitor the number of students' login, the number of self-assessment registration, the number of reports and exchanges, and the number of resource sharing, so as to carry out systematic statistics on the overall self-evaluation of students and achieve the purpose of standardizing students' self-evaluation behavior. In this evaluation system, teachers can systematically integrate the current self-learning community structure framework according to the overall data feedback from the evaluation system, so as to make the college students' autonomous learning mode formed under the background of Internet mobile terminals more reasonable, create a better autonomous learning environment for students, and fully improve college students' autonomous learning ability and efficiency.

### **3. The Effect of Students' Autonomous Learning Mode in Mobile Internet Environment**

The practice has proved that the teaching reform plan of College Students' autonomous learning resource system in university campus is correct and has achieved good teaching results. In the era of mobile Internet, the traditional teaching method has not adapted to the development of teaching work at this stage. It is difficult to mobilize students' learning enthusiasm by blindly taking teachers as the main body of classroom teaching, thus making teaching inefficient. However, the effective construction of College Students' autonomous learning resource system has effectively solved the current teaching problems. Using mobile terminal technology, colleges and universities have developed a lot of learning software. Learning apps are mainly divided into free and charged. College teachers can upload some learning courses to the free app to provide students with autonomous learning. In addition, they should encourage students to share the excellent learning apps found in the daily self-learning process to other students of the school in time, so as to realize the common goal of progress. Nowadays, the number of learning apps in colleges and universities in China is increasing rapidly.

### **4. Problems and Prospects of Students' Autonomous Learning Mode**

Although it is said that students' autonomous learning is advocated in the teaching reform of colleges and universities, mobile terminal technology is also actively used in order to create a better autonomous learning platform for students. However, there are still some problems in the process of implementing the teaching measures, which restrict the development of students' autonomous learning mode. Under the influence of many factors, students' autonomous learning mode under the background of mobile terminal is destined to become a kind of teaching method tending to be auxiliary, which can not really replace the traditional classroom teaching. This will, to a large extent, make the mobile terminal autonomous learning mode unable to really play its internal role, and then cause certain adverse factors on the construction of a good online autonomous learning environment. A survey found that the factors affecting the construction of students' autonomous learning mode mainly come from several points. First, students' self-control ability is poor. When using mobile phones for autonomous learning, they are easy to be interfered by some other information in mobile phones. Students can't concentrate their attention on the online classroom, which will affect their learning efficiency. Secondly, using mobile terminals to carry out autonomous learning can not achieve individualized teaching. The content of learning video course uploaded by teachers is relatively fixed, and the teaching effect is relatively poor. At present, colleges and universities have

realized these shortcomings in the process of developing online autonomous learning mode, and will make corresponding teaching reform in time for the above problems.

## 5. Conclusion

To sum up, the arrival of the Internet era has brought great promotion to the development of teaching reform in colleges and universities. Modern university campus has taken mobile terminal as a new teaching platform to encourage students to constantly improve their self-learning ability, and actively use the network learning platform to enrich their knowledge base. At the same time, it will also fundamentally improve their learning literacy.

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1). The phased results of general scientific research project of Hunan Education Department in 2020 “Research on the Talent Cultivation Mode of” One Main Line, Two Docking, Three Fusion and Four Cooperation “for Business English Majors in Local Universities” (Project No. : 20C1040).

2). The phased results of the National Innovation and Entrepreneurship Training Program for College Students in 2020 “Research on Autonomous English Learning Mode for College Students Based on Mobile Terminals in the Internet Environment” (Project No. : S202010553006).

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