



Analysis of the Impact of the Application of Electronic Products on the Learning Effectiveness of College Students

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ABSTRACT. The widespread application of applied electronic products such as smartphones and tablets in the daily learning and life of college students has had a wide impact on their learning. University administrators should approach the issue of college students using electronic products with scientific and dialectical thinking. They should not only recognize the positive impact of the application of electronic products on college students' learning, but also guide them to use electronic products reasonably according to the situation; We should also recognize the potential negative impact of the use of electronic products on the learning of college students, and take reasonable restrictive measures to guide them to use electronic products reasonably.

Keywords: Electronics, College Students, Learning, Effects.

1 Introduction

With the rapid development of electronic information technology, application-oriented electronic products are not only more and more diverse, but also more and more powerful. The wide application of smart phones, tablets and other applied electronic products in the daily study and life process of college students has had a wide impact on the learning of college students. According to a questionnaire conducted by a scholar on students at a university, most of the students in a university basically rely on mobile phones to use the Internet except for class breaks, and even a small number of college students still use mobile phones to play games, chat, and shop during class. [1] It can be seen that with the development of the times, it is an indisputable fact that electronic products have an impact on the learning of college students.

2 The Positive Impact of the Application of Electronic Products on the Learning of College Students.

The widespread use of electronic products is the result of the development of the times. Today's era is the age of informatization, and all aspects of social life have been widely influenced by informatization, and have been branded with informatization, and the study and life of college students is no exception. The wide application of application-oriented electronic products is the most direct response of informatization in social life. The use of electronic devices such as smartphones and tablets can have a positive impact on the learning of university students.

2.1 The application of electronic products has broadened the learning channels of college students.

Before the widespread impact of informatization on social life, the traditional university learning content mainly came from classrooms, teachers, textbooks and other teaching materials, such as books and *periodicals*. The development of informatization and the wide application of electronic products have greatly broadened the learning channels of college students. In addition to the traditional sources of teaching content, contemporary college students rely on mobile phones, computers and other electronic products to obtain additional learning content that they are interested in. This greatly expands the source of learning content for college students and enriches the learning content of college students.

2.2 The application of electronic products promotes the understanding of learning content among college students

Before the widespread application of informatization, if college students encountered knowledge that they did not *understand* in the process of learning, they could generally only deepen their understanding and learning by asking teachers for advice, discussing with each other, and looking up materials in the library. Although these traditional methods can also better solve the difficulties encountered by college students in the learning process, compared with information technology, there are also problems such as low efficiency. With the wide application of electronic products, when college students encounter learning difficulties in learning, in addition to the traditional methods of solving problems, they use more information technology to help them deepen their understanding of the learning content. Information sources such as online information query and online courses can effectively help college students solve the difficulties encountered in learning. In addition, information means such as virtual laboratories and animation demonstrations of knowledge can concretize and visualize some abstract knowledge, which helps college students learn and understand knowledge more intuitively.

2.3 The application of electronic products meets the personalized learning needs of students to a certain extent

In 2012, the Ministry of Education promulgated the Ten-Year Development Plan for Educational Informatization (2011-2020), which proposed that "it is necessary to build an informatization environment and provide *personalized* learning services for each student"[2]. There are a large number of learning resources on the information network, and through the combination of electronic products and network information, college students can freely choose the content they want to learn and learn independently according to their personal learning needs, which meets the personalized learning needs of students to a certain extent.

2.4 The application of electronic products is conducive to college students to get timely help for the difficulties encountered in the learning process

Before the widespread use of application-oriented electronic products, if college students encounter knowledge and problems *that* they do not understand in the learning process, it is difficult for them to get help for the corresponding problems in time, at least in timeliness. With the wide application of application-oriented electronic products, as long as there is the help of information networks and electronic products, college students can get help information anytime and anywhere. This effectively solves the problem of answering questions and solving doubts in the learning process of college students, and effectively improves the learning effect and learning efficiency of college students.

2.5 The application of electronic products can improve the comprehensive quality of college students to a certain extent.

In November 2004, the Central Committee of the Communist Party of China and the State Council issued the "Opinions on Further Strengthening and Improving the Ideological and Political Education of College Students," which pointed out that it is necessary to comprehensively strengthen the construction of campus networks and make them an important means of carrying forward the main theme and carrying out *ideological* and political education. It is necessary to carry out in-depth and meticulous ideological and political work and mental health education. [3] It can be seen that through the blessing of electronic products, college students can help themselves learn their own professional knowledge through information technology, and at the same time, they can also strengthen their ideological and moral learning and achieve an all-round improvement of their comprehensive quality.

3 The Negative Impact of the Application of Electronic Products on the Learning of College Students

The widespread application of applied electronic products among college students is a double-edged sword, and there are also some drawbacks while improving the learning effectiveness of college students.

3.1 Diverted students' learning attention

In addition to knowledge-based information, there is also a large amount of entertainment information such as games, movies, animations, and videos on the internet. And this entertainment information is more *attractive* and tempting than the vast majority of knowledge-based information. If college students have poor self-control, they are easily attracted to this entertainment information when using electronic devices, which can delay their learning.

3.2 Online learning content is mixed with good and bad content

Due to the wide range of sources of online information, the identity of providers of online information is complex, and the purpose of information providers providing information is also different, so the content of *online* learning is mixed. When college students use electronic products to learn online content, it is difficult to fully guarantee that what they learn from the internet is truly scientific and rigorous knowledge, which is very different from the knowledge obtained through the classroom, textbooks, and teachers.

3.3 Has a certain impact on educational equity

Although information on the internet is visible to all internet users anytime and anywhere, and college students can access online learning content according to their own needs under the premise of complying with the law, the truly scientific and rich learning resources on the internet generally require paid access, which can cause *certain* difficulties for some economically disadvantaged college students. College students with good economic foundation can easily pay to access the information they want to learn without hesitation, while those with poor economic ability may mostly give up paid access to online learning content. So the use of electronic products will have certain educational equity issues for the learning of college students.

4 Conclusion

In short, the widespread use of electronic products has both advantages and disadvantages. The use of electronic products by college students in their learning and daily

life can have a wide impact on their learning outcomes. University administrators should approach the issue of college students using electronic products with scientific and dialectical thinking. They should not only recognize the positive impact of the application of electronic products on college students' learning, but also guide them to use electronic products reasonably according to the situation; We should also recognize the potential negative impact of the use of electronic products on the learning of college students, and take reasonable restrictive measures to guide them to use electronic products reasonably. In short, for the issue of college students using electronic products, whether it is completely disregarding the freedom of laissez faire or completely prohibiting it, it is unreasonable. Instead, we should promote strengths and avoid weaknesses, ensure the reasonable use of electronic products in college students' learning and life, and make their learning and life more in line with the characteristics of the times.

5 Authors' Contributions

Except for the necessary references to the content of the literature, the content of this article is written by the author himself.

Acknowledgments. his paper has been written with reference to some necessary literature, and I would like to express my heartfelt thanks to the authors of the corresponding literature. In addition, during the writing of this article, I communicated with the university students many times, and expressed my gratitude for their opinions and suggestions.

References

1. FeiLi & Yongfu Pan. Influence of Mobile Phones on College Students and Countermeasures—Taking Chuxiong Normal University as an Example. *Journal of Chuxiong Normal University*. Vol.38, Nov.2023.
2. Ministry of Education of the People's Republic of China. Ten Year Development Plan for Education Informatization (2011-2020). [EB/OL]. [20210110]. http://www.moe.gov.cn/publicfiles/business/htmlfiles/moe/s3342/201203/xxgk_1
3. Government portal of the Ministry of Education of the People's Republic of China. Opinions on Further Strengthening and Improving the Ideological and Political Education of College Students [EB/OL]. [20041015]. http://www.moe.gov.cn/jyb_gzdt_gzdt/moe_1485/tnull_3939.html 2004-10-15

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