Research Article

Exploration and Practice of Multidisciplinary Integration of Law Teaching under the Background of IOT and Wireless Communication

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Received 22 August 2022; Revised 14 September 2022; Accepted 20 September 2022; Published 12 October 2022

Academic Editor: Sweta Bhattacharya

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The exploration and practice of multidisciplinary integration of legal teaching under the background of wireless communication are still at the primary level, facing the situation of low degree of multidisciplinary integration of legal teaching and low contribution of wireless communication technology and Internet of Things technology to multidisciplinary integration of legal teaching. To solve these problems, it is necessary to take wireless communication technology and Internet of Things technology as the internal driving force to promote the development of multidisciplinary integration of legal teaching, so that wireless communication technology and Internet of Things technology depend on the strategy of legal and multidisciplinary integration teaching, hide in the teaching link, and use wireless communication technology to solve the pain points in the multidisciplinary integration of legal teaching, so as to serve teaching.

1. Introduction

The multidisciplinary integration of law teaching in western developed countries is better than that in eastern countries [1]. Economic development promotes the reform of the form and structure of education. Due to its strong economic strength, western developed countries are also ahead of eastern countries in the development of education [2]. As early as the middle of the nineteenth century, western countries put forward the concept of multidisciplinary integration teaching. In the 1980s, Liu Zhonglin proposed the value of multidisciplinary integration teaching. After hundreds of years of precipitation, western developed countries have made some achievements in the multidisciplinary integration of legal teaching. The multidisciplinary integration of legal teaching in China has just started. Although the degree of development of multidisciplinary integration between the East and the West is different, they have the same development goals, development concepts, and development principles for the development of multidisciplinary integration of legal teaching [3].

The promotion of wireless communication technology. The wave of industrial technology has pushed the development trend of talents towards the construction of comprehensive and compound talents [4]. The transformation of talent demand must promote the transformation of education mode, and it is urgent to promote the integrated development of disciplines to build new compound talents. In the field of legal education, through the deep integration of law and multidisciplinary, the independent knowledge system of various disciplines is integrated into a whole, so as to cultivate new comprehensive, compound, high-level, and high-quality talents [5]. The Internet of Things uses various information sensors to realize information exchange and remote control management between people, things and things, and people and things. Internet of Things technology is widely used in many fields with its superior information transmission ability and control ability. The Internet of Things technology has also been widely used in the multidisciplinary field of law teaching, such as the information transmission of online virtual classrooms and the construction of virtual classroom scenes. The Internet of Things is a core
technology for the development of multidisciplinary integration of legal education, which plays a great role in promoting the multidisciplinary integration of legal education.

The changing trend of law teaching. Human resources are an important part of social resources and an important driving force for social development. Education is the source of human resources [6]. At present, college teachers tend to instill knowledge directly to students, and ignore the students’ grasp of the overall knowledge. And in the teaching process, the independence of each subject teaching is strong, and subject interaction is low, resulting in students’ knowledge system confusion. In order to change this situation, China successively put forward the concept of multidisciplinary integration development in 2007 and promulgated the “10-year development plan of education informatization” to promote the development of multidisciplinary integration education in China. At present, the development of multidisciplinary in-depth integration education system has become the development trend of Chinese education. However, it still faces problems such as late start, slow development, and backward system [7].

2. Current Situation of Multidisciplinary Integration of Law Teaching under the Background of Wireless Communication

2.1. Development Status of Exploration and Practice of Multidisciplinary Integration of Legal Teaching. The connotation of multidisciplinary integration and development of legal teaching is to meet the needs of high-level, applied, and high-quality talents in society. Through scientific and reasonable design of courses, the heads of various disciplines in colleges and universities should not only teach undergraduate courses but also speak out the contents of interdisciplinary courses, so as to make the teaching of law more attractive and persuasive, and cultivate students’ ability to flexibly use subject knowledge. The development of multidisciplinary integration of legal education is to meet the needs of social development, the expansion of legal disciplines, and the promotion of subject value and students’ professional value [8].

The integration model of law and some subjects is difficult to establish effectively [9]. The integration of law and science and engineering is difficult both to establish the integration mode of basic knowledge within the discipline and to establish the guarantee mechanism of external wireless communication technology. The recipient of subject integration is college students. The knowledge system of law students and science and engineering students is very different. The establishment of internal integration mechanism is related to the cultivation of students’ comprehensive quality after subject integration [10]. The establishment of interdisciplinary integration model needs to break through the boundaries of disciplines, consider the development of social economy, consider the links and contradictions between disciplines, and develop a high level of interdisciplinary integration model with the joint efforts of educators and researchers. Discipline integration needs not only internal integration but also external support of wireless communication technology [10].

The integration of law and some subjects brings new impact. On the one hand, teachers are not familiar with the new integrated subjects and teaching level is not enough [11]. Before the multidisciplinary integration of legal education is not implemented, some university teachers may only need to be familiar with the knowledge in the undergraduate course of law [12]. However, after the implementation of multidisciplinary integration of legal education, these university teachers should also teach subjects they are not familiar with. On the other hand, the development of multidisciplinary integration model of law is not mature, and there is no reference precedent. Law and multidisciplinary integration does not find their own position, no clear direction of development, will make these disciplines face a variety of shocks, challenges [13].

The overall degree of multidisciplinary integration of law teaching is not high. The overall low degree of multidisciplinary integration of legal education is the reason why it is difficult to establish an effective model for multidisciplinary integration of legal education and faces various shocks [14]. The Chinese government formally began to implement the concept of multidisciplinary development in 2007, and the multidisciplinary integration of law started later. Therefore, the development of multidisciplinary integration of law is facing the dilemma of late start, slow development, lack of precedent, and low overall development level [6, 7, 11, 15].

2.2. Application of IOT and Wireless Communication Technology in Multidisciplinary Integration of Legal Teaching. With the continuous development of Internet of Things and wireless communication technology, people are eager to show the charm of wireless communication technology in different applications. The application of things and Internet of Things and wireless communication technology in the exploration and practice of multidisciplinary integration of law education has an obvious effect on promoting law to expand the scope of disciplines, adapt to social development, and enhance the value of disciplines. But there are still some deficiencies [16].

Things and Internet of Things and wireless communication technology has a low degree of application and a small range of applications in law teaching. The development of things and Internet of Things and wireless communication technology has been very mature to meet the needs of social development. However, the multidisciplinary integration of legal education is a new field of things and Internet of Things and wireless communication technology, which is faced with immature development model, imperfect core technology, and incomplete application scope. Nowadays, relevant researchers have not solved the core problems in the field of multidisciplinary integration of legal education, and the development of multidisciplinary integration of legal education is still a long way to go [17].

The application area of things and Internet of Things and wireless communication technology in law teaching is not balanced. Due to the regional imbalance of educational development, there is also regional imbalance in the
application of things and Internet of Things and wireless communication technology in the multidisciplinary integration of legal teaching. Specifically, the integration degree of developed eastern regions is strong, while that of underdeveloped western regions is weak. Because of its strong economic strength, the investment in education in the eastern region is much higher than that in the western region, and things and Internet of Things and wireless communication technology in the eastern region is also more developed than that in the western region, so the multidisciplinary integration of things and Internet of Things and wireless communication technology in legal teaching in the eastern region is significantly better than that in the western region [18].

There is no normative system for things and Internet of Things and wireless communication technology to promote the multidisciplinary integration of legal teaching. Exploring the multidisciplinary integration of legal teaching based on wireless communication technology has not yet established a unified normative system in the industry, resulting in uneven levels of the entire industry. When developing the multidisciplinary integration model of legal teaching, various problems are often exposed, which are ignored because there is no unified industry norm. However, these problems often appear again in the process of practical application, which will cause a lot of waste of manpower and material resources, which is one of the reasons why the multidisciplinary integration of legal teaching based on things and Internet of Things and wireless communication technology in the industry has not been widely developed. Establishing a normative system of things and Internet of Things and wireless communication technology to promote the multidisciplinary integration of legal teaching is an important step in the development of things and Internet of Things and wireless communication technology in the multidisciplinary integration of legal teaching [19].

3. Questionnaire Survey

3.1. Investigation Process

3.1.1. Investigation Purpose. Investigation on Discipline Integration of Law Schools in Colleges and Universities

3.1.2. Investigation Objects. A questionnaire survey was conducted among 400 law students randomly selected from different regions nationwide.

Determination of the number of respondents:

\[ n = \frac{M \times Z^2 \times \sigma^2}{(M-1) \times \Delta^2 + Z^2 \sigma^2}. \] (1)

As in formula (1), in this formula, \( M \) represents the total number; in this survey, it refers to the number of legal students in national universities, and \( \sigma^2 \) refers to the overall variance. After calculation, \( n = 402.16 \), so the number of subjects in this experiment was 400.

3.1.3. Investigation Methods. Sampling method: first by stratified sampling to determine the number of people in various regions, and then by simple random sampling method to extract students for investigation.

Survey method: questionnaire survey method.

3.1.4. Survey Content. First, through the understanding of law students’ learning situation, estimate the legal teaching situation.

Second, through the understanding of the law students’ classroom learning form, estimate the law classroom situation.

Third, through the multidisciplinary integration of college courses, to estimate the degree of multidisciplinary integration of legal teaching in Chinese universities.

Fourth, through the understanding of students’ opinions on college courses, to further understand the degree of multidisciplinary integration of legal teaching in colleges and universities in China.

Fifth, by understanding the development of multidisciplinary integration of Internet of Things and wireless communication technology in legal teaching, the development trend of multidisciplinary integration of legal teaching under the background of wireless communication network is speculated.

3.1.5. Reliability Analysis of Investigation Process

(1) First, Validity Analysis. As shown in Table 1, the validity analysis results of the data generated by the survey results are as follows. The four factors of characteristic root value (before rotation) are greater than 1, the four factors of cumulative variance explanation rate % (after rotation) are greater than 50%, the KMO value is 0.610, and the Barthes spherical value is 0.0000. From the above results, it can be seen that the validity results are good, the correctness of the questionnaire data is high, and the validity is high.

(2) Second, Reliability Analysis. Reliability analysis is a common method to test the reliability of the survey results. Specifically, the questionnaire is used to repeatedly measure the subjects, and the consistency of the results is obtained.

Reliability analysis of Cronbach’s alpha coefficient in the experiment

\[ \alpha = \frac{H}{H-1} \left(1 - \frac{\sum p_i^2}{P_x^2}\right). \] (2)

Formula (2) shows the value of \( \alpha \) in this survey, and the results are shown in Table 2. In accordance with the provisions of Cronbach’s alpha coefficient, it is acceptable when \( \alpha > 0.7 \), so the results of this survey have high reliability.

3.2. Investigation Significance. It has been more than ten years since the promulgation of the ten-year development plan of educational informatization in China. However, we have not achieved good results in the development of multidisciplinary integration of legal education. The investigation of the subject integration of college law schools and the problems existing in the integration of the subjects demonstrated by the results of the investigation can give us a systematic understanding of the multidisciplinary integration of legal education in colleges and universities across the
The rapid development of Internet of Things and wireless communication technology has brought new opportunities for development. It is of great significance to propose targeted solutions according to the problems to improve the degree of multidisciplinary integration of law in colleges and universities across the country.

3.3. Display of Survey Results

3.3.1. Views on Multidisciplinary Integration of Law Teaching.
As shown in Figure 1, students’ opinions on legal investigation mainly focus on enriching the form of class and increasing the integration of subjects, which is consistent with the current situation of multidisciplinary integration of legal teaching in China. Notification realizes the internal mode and external guarantee of multidisciplinary integration mode of legal teaching through Internet of Things and wireless communication technology and promotes the development of multidisciplinary integration of legal teaching.

3.3.2. Correlation Analysis between Students’ Usual Scores and Class Wonderful Degree. The results of variance analysis of students’ usual scores and class wonderful degree are shown in Table 3, which shows that the P-value is less than 0.05. According to statistical knowledge, the original hypothesis is rejected, that is, there is a certain correlation between students’ usual scores and class wonderful degree.

The study shows that there is a close relationship between students’ usual scores and class wonderful degree, that is to say, the form of college teachers’ lectures will affect the enthusiasm of students to listen to the class and then affect the usual results. The teaching of college teachers after multidisciplinary integration of law teaching should not only pay attention to the diversity of teaching contents but also pay attention to the quality level of teaching contents, and the most important is the acceptability of students. Internet of Things and wireless communication technology provides external guarantee for the integration of legal disciplines, participates in the classroom, and makes the explanation of college teachers more vivid and persuasive.

3.3.3. Comparison of Multidisciplinary Integration of Legal Teaching in Different Schools. Figure 2 shows that there is a big difference in the multidisciplinary integration of legal teaching in different schools. The number of legal teaching integration disciplines in 5-10 schools is more, indicating that different schools attach different importance to the practice and exploration of multidisciplinary integration of legal teaching. As an applied discipline, law has its application fields in sociology, economics, psychology, medicine,
and so on. The multidisciplinary integration of law teaching can enhance the competitiveness of law itself and increase the professional value of legal workers.

4. Solutions to Multidisciplinary Integration of Law Teaching Based on Internet of Things and Wireless Communication Technology

4.1. Things and Wireless Communication Technology Depends on the Integration of Law and Multidisciplinary Teaching Strategy, Hidden in the Teaching Link. Internet of Things technology and wireless communication technology are the internal driving force to promote the development of multidisciplinary integration of legal teaching. In recent years, with the rapid development of wireless communication technology, especially since the birth of 5G communication technology, wireless communication technology has had an important impact on various fields. In terms of discipline integration, the opportunities for legal teaching and more discipline integration play a great role in promoting social development and enhancing the development value of law discipline. The combination of Internet of Things technology and information technology can build a digital learning development model and interactive video courseware design to promote the diversity of college teachers’ classes. The combination of Internet of Things technology and other related technologies to build a management platform for the multidisciplinary integration mode of campus information-based intelligent law education can guarantee the multidisciplinary integration mode of law in the internal and become an important guarantee for the practice and exploration of law in the external. At the same time, it is also a guarantee for the smooth progress of teaching after the multidisciplinary integration of law teaching. As a technical support, the Internet of Things technology plays an important role in promoting the multidisciplinary integration of law teaching.

4.2. IOT and Wireless Communication Technology Depends on the Integration of Law and Multidisciplinary Teaching
Strategy, Hidden in the Teaching Link. Technical personnel apply IoT and wireless communication technology to solve various problems in law and multidisciplinary integration teaching. As shown in Table 4, most law schools will use things and wireless communication technology in their daily learning. Internet of Things and wireless communication technology can improve the efficiency of students’ access to information after class, and the daily learning and communication of French students will be very convenient. Things and wireless communication technology in class will make the multidisciplinary teaching mode of law teaching more efficient and convenient, reduce the burden of preparing lessons for college teachers, and also make the classroom more lively and interesting, and improve the learning efficiency of students. As shown in Table 4, most law school students are willing to accept the “one lesson, two teachers” teaching model.

The teaching mode of “one lesson and two teachers” mainly refers to the legal subject teachers as the main lecturer, and the interdisciplinary teachers use things and wireless communication technology equipment to supplement the explanation of college teachers in the main lecturer [14].

This “one lesson, two teachers” lecture mode is mainly established because the integration time of some disciplines is relatively short, and the teachers who examine law may not have a comprehensive understanding of other disciplines, which cannot bring students more convincing explanations. The lecture mode of “one lesson and two teachers” is based on the fifth generation of communication technology, which plays an important role in promoting the multidisciplinary integration of legal teaching [17].

4.3. Internet of Things and Wireless Communication Technology Focuses on Solving the Pain Points in the Multidisciplinary Integration of Legal Teaching, So as to Serve Teaching. The development of multidisciplinary integration of legal education is difficult. Figure 3 shows that the main problems faced by the development of multidisciplinary integration of law teaching are the single form of class, students do not adapt to the operation mode of multidisciplinary integration of law teaching, the superficial lack of in-depth teaching content, and the uneven distribution of subject resources [8]. The application of things and wireless communication technology combined with information technology can realize the operation mode management of law teaching after multidisciplinary integration. By optimizing the teaching form, it can make the course content more colorful, solve the problems of boring course and obscure content, and solve the problem of uneven distribution of discipline resources at night. Things and wireless communication technology focuses on solving the pain points in the multidisciplinary integration of legal teaching, promoting the practice and exploration of the multidisciplinary integration of legal teaching, so as to serve teaching [14].

4.4. Internet of Things and Wireless Communication Technology as the Driving Force to Promote the Development of Multidisciplinary Integration of Law Teaching. Internet of Things technology and wireless communication technology are the internal driving force to promote the development of multidisciplinary integration of legal teaching. In recent years, with the rapid development of wireless communication technology, especially since the birth of 5G communication technology, wireless communication technology has had an important impact on various fields [8]. In terms of discipline integration, the opportunities for legal teaching and more discipline integration play a great role in promoting social development and enhancing the development value of law discipline [14]. The combination of Internet of Things technology and information technology can build a digital learning

| Usually using electronic products | Acceptance willingness of one lesson and two teachers | Total |
|---------------------------------|-----------------------------------------------|-------|
|                                 | Unwilling | Willing | |
| Would not                       | 48        | 100     | 148   |
| Will                            | 85        | 167     | 252   |
| Total                           | 133       | 267     | 400   |

Table 4: Willingness to accept the two-teacher model in lesson one.
development model and interactive video courseware design to promote the diversity of college teachers’ classes [20]. The combination of Internet of Things technology and other related technologies to build a management platform for the multidisciplinary integration mode of campus information-based intelligent law education can guarantee the multidisciplinary integration mode of law in the internal and become an important guarantee for the practice and exploration of law in the external. At the same time, it is also a guarantee for the smooth progress of teaching after the multidisciplinary integration of law teaching. As a technical support, the Internet of Things technology plays an important role in promoting the multidisciplinary integration of law teaching [21].

5. Conclusion

In order to meet the needs of society for high-level, applied, and high-quality talents, it is necessary to realize the multidisciplinary integration of legal teaching. At present, the exploration and practice of multidisciplinary integration of legal teaching under the background of things and wireless communication technology still at the primary level, facing the situation that the degree of multidisciplinary integration of legal teaching is not high, the contribution of things and wireless communication technology to the multidisciplinary integration of legal teaching is low, and the degree of multidisciplinary integration of legal teaching shows regional differences. To solve these problems, it is necessary to use things and wireless communication technology as an internal driving force for the development of multidisciplinary integration of legal teaching. Internet of Things and things and wireless communication technology is dependent on the strategy of law and multidisciplinary integration teaching, hidden in the teaching link, and the teaching mode of “one lesson, two teachers” is established. At the same time, Internet of Things and things and wireless communication technology is used to solve the pain points in the multidisciplinary integration of law teaching, so as to serve the teaching.

Data Availability

The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request.

Conflicts of Interest

The author declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

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