

# *Research on Practice Teaching Mode of IAPT Course under the Background of Big Data*

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**Abstract:** Ideological and political theory course (IAPTC) has always been an important part of IAP education in China. However, after the investigation and analysis of the practical teaching mode of IAPTC in Colleges and universities (CAU), it is found that the teaching methods (TM) of IAPTC teachers have great deficiencies. Therefore, combined with the actual teaching situation in China, this paper combines the practice mode IAPTC under the big data (BD) technology to promote the updating of teaching mode and enhance the teaching effectiveness of IAPTC in the era of BD. This paper uses the method of questionnaire survey to investigate the current situation of IAPT teaching of college students. Through comparative analysis, it is shown that the integration of BD technology into the teaching process (TP) of IAPTC can improve the teaching status of IAPTC.

## **1. Introduction**

With the rapid development of society and the full coverage of Internet technology to people's lives [1-3], digital life has gradually become the theme of people's daily life, and its influence has swept the world. The report of the 19th National Congress of the Communist Party of China emphasizes "promoting the Internet and BD". In today's world, the information age has become the data age. Facing the arrival of "BD" era [4-6], how to effectively use "BD" technology has become an urgent task.

IAPTC is the basic way and position of systematic IAP education for college students by using Marxist theoretical system, and is a key course to implement the fundamental task of Moral Education [7-9]. However, there are some problems in the traditional IAPTC, such as students' inattention, low participation and low learning enthusiasm. In the classroom performance for low attendance, low head rate, low head rate phenomenon. From a deeper level, this is a problem of persuasion and value orientation, which inevitably leads to the emergence of teaching effect and curriculum orientation. This is not in line with the needs of College Students' growth and development, and there is a big gap with the Party Central Committee's high attention.

This paper investigates and analyzes the practical teaching mode of IAPTC in CAU, and finds that the teaching method of IAPTC has great problems. Therefore, this paper analyzes the transformation of practical teaching mode of IAPTC in the new era. In this study, the current IAPTC teaching, the introduction of "BD" technology, open innovation platform, change the way of thinking, change the teaching mode of IAPTC [10]. Through the questionnaire survey, it is found that bringing BD technology into the teaching of IAPTC in CAU can effectively improve the TM,

teaching content and actual teaching effect.

## **2. Hybrid Teaching Mode under the Background of BD**

### **2.1 BD**

BD refers to the new cognition and value created by people on the basis of massive data collection. The fundamental significance of the concept of data is that people can record and store all kinds of information at all levels of human society. Through the collection, analysis, processing and sharing of this information, we can obtain the previous "small data", which is the knowledge, phenomenon and value law that cannot be found in this era, which has changed people's cognition, understanding and life style of the world. The definition of "BD" should reflect the change of data scale, technology and value and its impact on human social life.

### **2.2 Mixed Teaching Mode**

The mixed teaching mode is different from the traditional teaching idea. Relying on BD technology can promote education reform and innovation, and comprehensively improve the level of education development. In terms of teaching objectives, the intervention of BD will inevitably produce the result of experience. In the construction of teaching mode, it is required for IAPTCs in CAU to summarize and analyze data, improve the teaching objective of data confirmation effect, and the role experience plays in persuading BD. In terms of teaching philosophy, it is necessary for multi-agent to participate in the common characteristics of BD, study the characteristic part of data, and interpret and attribute the characteristic part of data through empirical thinking. Only through the cooperation between TAS and deepening the teaching concept of two subjects, can the theory and practice be combined and the interpretation can be embodied. In terms of TM, the development of science and technology in the era of BD has promoted the innovation of TM. We should integrate the relationship between traditional teaching and network teaching, realize the integration of IAP"teaching" and "learning", and implement the student-centered mixed teaching mode.

## **3. Research and Analysis of Mixed Teaching of IAPTC Based on BD Technology**

### **3.1 Experimental Ideas**

As an important part of China's IAP education, IAPTC bears the responsibility of cultivating social builders and successors of socialism. However, the situation is not optimistic. Most of the IAPTCs in CAU are theoretical teaching, belonging to the "cramming" teaching mode. Most of the students are passive acceptance of learning, teachers' TM have great deficiencies. In order to ensure that college students receive the IAPT education to the maximum extent, this paper puts forward the reform of IAPTC by using BD technology to promote the practice teaching mode, and to promote the "IAPTC for college students". Through the "Online + offline" classroom teaching mode, through the network platform between TAS to carry out timely, effective and equal communication, so as to solve the students' ideological dynamic problems in the actual TP, and formulate teaching plans and methods.

### **3.2 Experimental Design**

In order to further explore the teaching situation of IAPTC in CAU, guide the research on the promotion mechanism of teaching reform, and provide guidance for the teaching of IAPTC, we

conducted a questionnaire survey. The sample of the questionnaire is from random sampling. The survey objects are mainly college students and teachers. 1000 questionnaires were distributed and 858 valid questionnaires were collected. There are 738 students and 112 teachers, including 496 girls and 362 boys. From a political point of view, 77% of the members of the Communist Youth League and 13% of the party members and probationary members. After sorting out the questionnaire results, SPSS software was used for statistical analysis and data management. The Table 1 showed that compared with traditional TM, the combination of IAPT and simultaneous interpreting of BD technology is more effective.

Table 1: Male and female students' views on mixed teaching of IAPTC under BD technology

Investigation factors	Proportion of male students (%)	Proportion of female students (%)
Very helpful	72.3	75.1
Some helpful	18.6	16.7
No helpful	9.9	8.2

## 4. Discussion

### 4.1 Analysis of Mixed Teaching Mode of IAPTC under the Background of BD

With the support of BD technology, teachers' own level can be tested and measured through a large number of data, so as to analyze the characteristics of IAPTC in the actual development process. According to the test data, through analysis, a set of comprehensive evaluation system is established. Through the collection of data, targeted assessment and evaluation can be carried out. Compared with the traditional personnel training work, under the background of BD era, the talent training mode has undergone great changes, and the process of talent training is based on science. Therefore, in terms of talent training objectives, in the actual training process, not only need the efforts of students themselves, but also under the support of BD technology, teachers should provide effective and reliable information for students in a timely manner, so that students' abilities in all aspects can keep pace with the times, so as to improve the scientific level of IAP teaching. In addition, in terms of teacher structure, under the background of BD, great changes have taken place in the team structure of teachers. The fairness and objectivity of evaluation management have been greatly improved in terms of teachers' age, education level and professional title. As can be seen from Figure 1, both TAS are quite satisfied with the mixed teaching of IAPTC under the background of BD. Network learning platform can enhance the expansion of TAS' IAPT knowledge, and help students obtain more colorful IAPT knowledge. At the same time, in the actual TP, teachers can enrich the content of IAPTC, make the teaching atmosphere more vivid and interesting, and improve the enthusiasm of students. In short, integrating BD technology into the development process of IAPTCs in CAU and establishing a new type of mixed teaching mode can make students and teachers feel satisfied and better meet their needs.

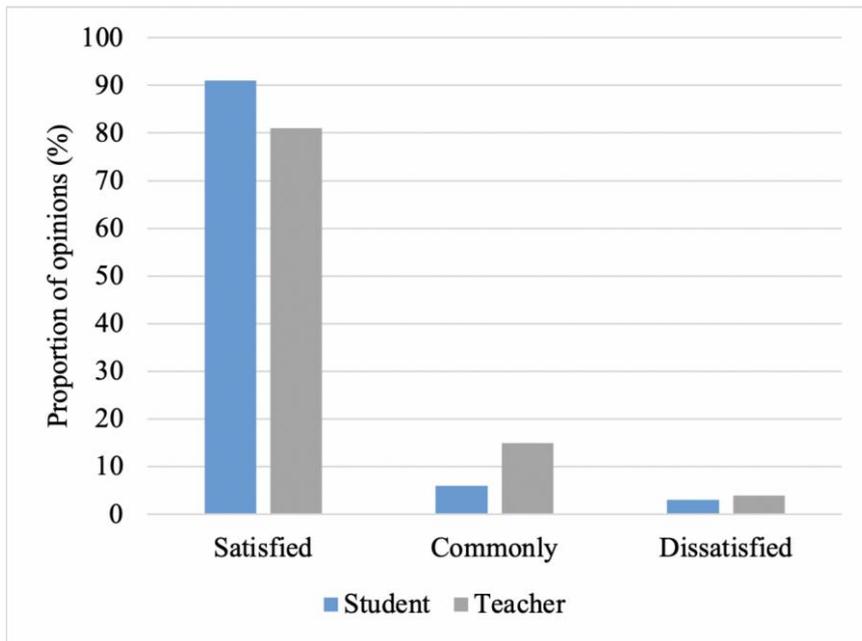


Figure 1: Survey on students' and teachers' satisfaction with the mixed teaching of IAPTC under the background of BD

At the same time, college students are the main body of learning IAPTCs, and appropriate and reasonable TM are the bridge between teachers and students(TAS), which is directly related to the depth of College Students' IAP learning. Therefore, the influence of political theory course cannot be ignored. As can be seen from Figure 2, 17% of the students prefer to write course papers and conduct ppt competitions for related courses; 10% of the students like discussion, debate, case analysis and other TM; 36% of the students prefer extracurricular and practical activities. Only 12% of the students think it is better to teach according to the syllabus and teaching materials. This shows that students prefer interactive and practical TM. At the same time, more interesting TM have been adopted according to the needs of teachers.

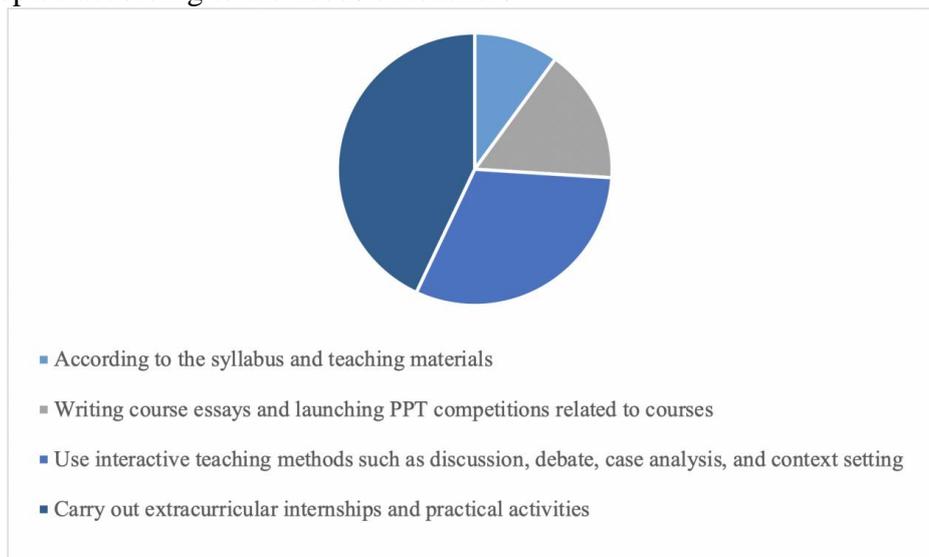


Figure 2: A survey on the satisfaction of students and teachers on the integration of craftsmanship spirit

## **4.2 A Survey on the Satisfaction of Students and Teachers on the Integration of Craftsmanship Spirit**

### **4.2.1 Improve teachers' data literacy, integrate teaching resources and create a diversified classroom**

In the era of BD, teachers should use BD knowledge, establish the concept of BD, and integrate high-quality teaching resources. Multi-dimensional BD retrieval technology can optimize data reading, support flexible query and index design of dynamic resources, and carry out intelligent, fast and efficient data filtering and data aggregation operations for all teaching resources required by teachers for lesson preparation. In the process of resource integration, teachers should, on the one hand, improve the data identification ability of IAP education communicators, understand their needs before being submerged by BD, and attach importance to massive data. At the same time, efforts should be made to eliminate the falsehood, preserve the truth, and make the resources true and reliable with scientific basis. On the other hand, teachers can take relevant methods to collect data and information, collect the most colorful materials, update the teaching content in time, grasp the social hot spots, understand the psychological needs of college students, display their own content, flexibly create a colorful classroom to ensure the realization of teaching effect.

### **4.2.2 Build multidimensional BD network platform to realize cloud teaching**

In the era of BD, massive information resources put forward higher requirements for the construction of network platform of IAPTC. The multi-dimensional and multi-dimensional position of CAU must be established in a solid political platform. First of all, establish a resource sharing platform to expand the network teaching space. According to the characteristics of BD, such as openness, equality and freedom, integrate high-quality resources inside and outside the school, and realize the information sharing between TAS in the era of BD. Secondly, establish a communication platform between TAS. Teachers should follow the principle of combining initiative with guidance, combining scientific with adaptability, integrate all kinds of teaching resources, build a communication platform between TAS, understand students' concerns, interests and puzzles, and integrate and sort out relevant network resources. Discuss and answer these knowledge points with students in the TP. Finally, the use of cyberspace, the establishment of IAPTC theme exchange platform. Marx college can provide various blogs, microblogs, WeChat official accounts and academic forums, and timely release knowledge modules of excellent websites to students through mobile terminals, so as to expand the network teaching status of IAPTCs in CAU.

### **4.2.3 Develop education BD, promote mode reform and realize individualized teaching**

We should vigorously develop education BD, better develop and utilize a large number of data resources generated in teaching, and build a new pattern of all members, all processes and quality education. New technologies such as BD era, cloud computing, mobile communication, pervasive computing and cloud storage are gradually integrated into the TP. On the premise of not affecting the teaching activities of TAS, the micro teaching data such as students' attitudes and concerns on different topics taught by teachers are collected and recorded continuously and in real time. These data information can be summarized into a unified BD education information base, which provides strategic resources for promoting the future university education reform. Through BD analysis, different teaching programs can be provided according to the needs of each student to meet the needs of different students. Through the collection of education BD, we can find and dig out the teaching details that we have never seen or ignored.

## 5. Conclusions

In view of the current situation of IAPT teaching in China, this paper introduces "BD" technology to realize the mixed teaching of IAPTC. Through investigation and analysis, it is found that both TAS are satisfied with the mixed teaching of IAPTC under the background of BD. It can be seen that students prefer interactive and practical TM. At present, some teachers adopt vivid and flexible TM according to teaching needs, so as to gradually replace the traditional teaching mode. BD technology can effectively improve TM, teaching content and actual teaching effect, and realize the common development of TAS.

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