

Practice Education Mode of Ideological and Political Education in Colleges and Universities and Its Value from the Great Ideological and Political Education and Association Rules Algorithm

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Abstract

With the advent of the mobile Internet era, the popularization of the concepts of "ubiquitous learning" and "lifelong learning" has led to the growth in practical education mode and its value analysis of ideological and political education in colleges and universities. At present, the practical education mode of ideological and political education in colleges and universities and its value analysis are not effectively applied in actual teaching situations. The main reason lies in the lack of perfect access standards and scientific classification. At present, the classification of practical education of ideological and political education in colleges and universities is roughly classified by disciplines, platforms and grades. It is difficult for teachers to choose an appropriate mode of practical education of ideological and political education in colleges and universities to apply to specific teaching links, resulting in the failure to substantially improve teaching efficiency. The three-dimensional practical education model and its value analysis model of ideological and political education in colleges and universities can effectively assist teachers and students in choosing the practical education model and its value analysis. At the same time, it can provide scientific basis for future ideological and political education and development in colleges and universities, promote the return of ideological and political education to the essence of education, and realize the practical education model of ideological and political education in colleges and universities, its value analysis and classroom teaching.

Keywords: Ideological and Political Education in Colleges and Universities, Practical Education Mode, Value Analysis, Association Rules Algorithm;

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1. Introduction

The mobile Internet is reshaping all aspects of human life, and human learning behavior has quietly changed under the influence of the mobile Internet. ^[1] In the era of mobile Internet, human learning behavior is no longer just in the classroom and the computer. Learning in time and in any place has become a reality, and it has made possible future "ubiquitous learning" and "lifelong learning" ^[2-3]. At the same time, the practice education mode of ideological and political education in colleges and

universities of colleges and universities provides software support for human mobile learning behavior. The human model and its value analysis have also been spurred by growth. According to authoritative surveys, there are more than 70,000 models of ideological and political education in China's colleges and universities [4-5].

However, although the number of colleges and universities' practice education mode of ideological and political education in colleges and universities education model and its value analysis are numerous,



it is difficult to apply it to classroom teaching, which leads to the inability to substantially improve teaching efficiency. The ideological and political education in colleges and universities has not yet achieved deep integration with classroom teaching [6-^{7]} The main reason lies in the following two aspects. On the one hand, it is the practice education mode of ideological and political education in colleges and universities education mode and its value analysis, including the interface design and user-friendliness and the design of the teaching content system. The educational practice mode and the function of value analysis fail to match the problems existing in the teacher's actual teaching process, and can not fully meet the teachers' daily teaching needs [8-9]. The solution of this problem depends on the government education function. The schools and the software development company work together systematically sort out the software development process, design a targeted college education policy practice education model and its value analysis [10]. This problem is common in all countries of the world, such as the primary research, model creation, evaluation feedback and continuous development of the practice education mode of ideological and political education in colleges and universities education model and its value analysis. In this regard, system organizes the development application process of the practice education mode of ideological and political education in colleges and universities education mode and its value analysis in colleges and universities, and provides targeted guidance for American software developers, startups and entrepreneurs, in order to design and develop high-quality colleges and universities in the future from the political education practice and its value analysis [11]. On the other hand, it is the college practice education mode of ideological and political education in colleges and universities education mode and its value analysis application. Teachers face a large number of college practice education mode of ideological and political education in colleges and universities education mode and its value analysis. It is difficult to choose the

appropriate college practice education mode of ideological and political education in colleges and universities education mode based on its actual teaching needs. The fundamental reason is the lack of classification of college practice education mode of ideological and political education in colleges and universities education mode [12]. The education model and its value analysis are mostly classified by the development platform, discipline and grade. Teachers can't choose the appropriate college education model and practice education mode according to their own technical mastery and specific learning environment, which can solve the problems existing in the specific teaching links and improve the teaching efficiency [13-14]. To deal with such problems, the ideological and political education in colleges and universities is imperative to carry out the multi-level and multi-dimensional refinement of the cultivating people. For the meticulous scientific classification of the ideological and educational practice model and its value analysis, it can not only solve the teachers' practice education mode of ideological and political education in colleges and universities, but it can also substantially improve the application efficiency of the practice education mode of ideological and political education in colleges and universities and its value analysis, providing an important reference for the design and development of the practice education mode of ideological and political education in colleges and universities and its value analysis [15].

2. Research status of practice education mode of ideological and political education in colleges and universities education in colleges and universities

At present, there are many types of practice education mode of ideological and political education in colleges and universities education at home and abroad, which are complex. In order to facilitate users to choose and use their own practice education mode of ideological and political education in colleges and universities model and value analysis products. The domestic and foreign scholars and research institutions are in the



universities. The practice education mode of ideological and political education in colleges and universities and its value analysis method have been explored. In foreign countries, the function of the practice education mode of ideological and political education in colleges and universities and its value analysis are divided into learning games, interactive reference applications, correction tools, to strengthen seven categories of e-Cert, Program Management Tools, Data Statistics Tools and Special Education Application Tools. According to the learning theory, the practice education mode of ideological and political education in colleges and universities and its value analysis are classified into guidance, operation and creation. The guidance refers to the software using the principle of intensive feedback to help the learner complete the learning of a certain knowledge point through repeated practice; the operation refers to the cognition of the knowledge by the learners through the provision of clues and tools. Creation refers to the construction of the environment and the construction of learning scaffolds to help learners complete new knowledge building based on the original knowledge. According to Bloom's cognitive goal, the practice education mode of ideological and political education in colleges and universities and its value analysis are divided into three categories based on skills, content and function. Skills are used to assist students to complete certain types of knowledge and learning of skills, which are corresponding to memory and understanding. Content-based classes are to provide students with information, data or knowledge, to assist them in the application of knowledge, corresponding applications and analysis. Functional classes are to assist students to transfer knowledge to real life, complete knowledge transformation, corresponding evaluation and creation. Domestic use of content analysis method can be divided into the practice education mode of ideological and political education in colleges and universities and its value analysis into early education, art and creativity, mathematics, astronomy, geography, language and reading, comprehensive puzzle, question bank and tools. The above scholars have classified the practice education mode of ideological and political education in colleges and universities and its value analysis according to different classification criteria, which has certain theoretical value, but its practical value is low. There is no theory-based classification tool for teachers. We can use and assist them to choose the appropriate mode of education and education for colleges and universities based on specific teaching needs analysis.

In addition, domestic and foreign research institutions and websites have also launched the practice education mode of colleges and universities, and its value analysis and evaluation services to assist teachers and students to choose the right products. Joan Ganz Cooney Center in Sesame Street, USA is dedicated to the multimedia environment. An independent institution is for children's study. As shown in Figure 1, in addition to more common development platforms, grades, and disciplines, further classification is based on skill objectives and software development goals. University and career preparation includes communication and collaboration, creativity, critical thinking, health and science and technology skills, each sub-category is subdivided sub-categories. For example, besides university and career preparation, it also includes interest exploration, job search, exam preparation and volunteer work. It is divided into knowledge acquisition, group study, teacher-guided courses, etc. according to the software development goals. There are similar value analysis and evaluation websites in colleges and universities in China.



Figure 1. Website for Ideological and Political Practice Education Model and Its Value Analysis



This study will make use of the association rules algorithm which is widely used at home and abroad, and will combine the specific subject refined classification to make and multi-dimensional three-dimensional classification study on the practice education mode of ideological and political education in colleges and universities and its value analysis. It can provide teachers, parents and students with fine-grained assistance in choosing the mode of education and education in colleges and universities, which can promote the application of value-based education model and its value analysis in the classroom, being the true mobile learning.

3. The practice education mode of ideological and political education in colleges and universities mode and its value analysis based on association rules algorithm

The logical starting point of educational technology is the problem in the interaction of education and technology. From the discovery of problems to the end of problem solving, the ideological and educational education practice mode and its value analysis in colleges and universities as the main tool of mobile learning, in its development and application process In order to fully reflect the deep integration of mobile technology and education and teaching. Therefore, the practice education mode of ideological and political education in colleges and universities education model and its value analysis should be taken as the ultimate goal, through the practice education mode of ideological and political education in colleges and universities education model and its value analysis research. In the design and development process, the functional design of the software and the actual needs of the education and teaching are promoted. Downward in the application, it is beneficial for teachers, parents and students to choose the right products and solve the practical problems in education and teaching.

3.1 Association rules algorithm

Association rules algorithm is the main reference for the university education practice and

value analysis to help teachers use the technology, all aspects of education teaching, the implementation technology and the education teaching. The depth of the fusion algorithm is based on association rules of college ideological education practice and value analysis. Its purpose is to promote college ideological education practice and the value analysis and education teaching fusion, so that teachers and students can choose a suitable mode of teaching in class, and then can improve the efficiency of teaching and learning. Therefore, this study is necessary to sort out the association rule algorithms that are widely used at home and abroad. Currently, the association rule algorithms that are widely used include SAMR model, TPACK model and TIM model.

3.2 SAMR model

The SAMR model is a hierarchical model created by Dr. Ruben Puttula to select, apply and evaluate techniques in education and teaching. The model is divided into four layers, namely substitution, which refers to technology. In education activities, only a simple replacement operation is carried out on a certain link. For example, in the past, teachers wrote the teaching outlines on the blackboard, and now the PPT presents the teaching outlines. There is no qualitative difference between the two, and they can substitute each other; (Augmentation) refers to the strengthening of teaching under non-technical conditions. example, teachers use PPT to present teaching outlines, and add some videos and animations to enhance students' understanding of the teaching outlines. It means that some teaching activities can be effectively carried out with the support of technology. For example, teachers use instant communication tools to organize students to carry out collaborative learning. Redefinition is the highest level of integration in technology and education. Then it is the auxiliary role of education and teaching, but it changes the original face of education and teaching. For example, Internet tools are implemented in classroom teaching.



3.3 TPACK model

The TPACK model is an association rule algorithm based on the PCK model proposed by Mishra and Kohler in Shulman, Michigan State University. The TPACK model contains three core elements, such as subject content knowledge (CK), pedagogical knowledge (PK) and technical knowledge (TK), and four composite elements, subject knowledge (PCK), teaching technology content knowledge (TCK), technology pedagogical knowledge (TPK), technological pedagogical and content knowledge (TPACK), which involves the integration of technology and curriculum, the subject contents knowledge of integrated technology. It means that technology can assist or enhance the presentation of classroom teaching knowledge by using model teaching aids demonstrate molecules. The pedagogical knowledge of the integrated technology means that technology can assist or enhance the implementation of classroom teaching strategies, for example, using social software to organize group collaborative learning. The subject teaching of integrated technology refers to comprehensive use technology to complete teaching activities, such as use online teaching software to conduct online teaching.

3.4 SAMR model

The TIM model was designed and developed by the Froda Education Technology Center in the United States. The model was developed in 2001. After 10 years, the third generation TIM model was launched in 2010. The TIM model is two-dimensional technology integration matrix. It can help teachers achieve the effective integration of technology and curriculum in the classroom. The two dimensions are the learning environment characteristics and technology integration stage, among which learning environment characteristics initiative, collaboration, include construction, authenticity and goal orientation. The technology integration stage includes entry, adoption, adaptation, integration and innovation.

In summary, the SAMR model, TPACK model and TIM model are all designed to promote the effective integration of technology and curriculum, but each has its own characteristics. The SAMR model focuses on different stages of technology application and belongs to the one-dimensional model. The TPACK model focuses on the integration of technology and teaching content. The teaching method is also the one-dimensional model. The above two models have certain theoretical significance for teachers to use technology in the classroom, but the practicality is low and practical. The TIM model is mainly aimed at teachers. The characteristics of the learning environment constructed by technology and the two-dimensional model constructed using the stage of technology provide sample videos of different disciplines in each dimension of the two-dimensional model, which has high practical value for the effective use of technology by instructors.

3.5 Classified study

Based on the detailed analysis of the existing educational model of college ideological and political education and its value analysis, and the comprehensive analysis of the existing algorithm of association rules. this study proposes three-dimensional college ideological policy according to the association rules algorithm. The educational practice and its value analysis model are designed to promote teachers' effective use of college practice education mode of ideological and political education in colleges and universities and its value analysis in the real teaching environment, and substantially improve teaching efficiency and learning effect.

3.6 Selection of classification dimension

The purpose of this study is to classify the practice education mode of ideological and political education in colleges and universities and its value analysis in colleges and universities. It aims at improving the use rate of teachers' practice education mode of ideological and political



education in colleges and universities and its value analysis in the process of teaching, and to substantially improve teachers' teaching efficiency. In terms of dimension selection, considering the advantages and disadvantages of existing association rules algorithms, and teachers' practical operation, the three dimensions of learning environment characteristics, technology use stage and discipline are selected.

(1) Learning environment feature dimension

According to the constructivist's learning theory, the learner's learning takes place in a certain learning environment, and the learner constructs new knowledge based on the original knowledge. Therefore. the construction of the learning environment is especially important for the learner's meaningful learning. The effective integration of classroom teaching is also reflected in the creation of the learning environment, especially since the emergence of information technology. It can help teachers to build a learning environment that can promote the meaningful learning of learners. Therefore, the characteristics of meaningful learning environment and colleges and universities, and the practice education mode of ideological and political education in colleges and universities and the functional characteristics of the value analysis will be in place, which will help the teacher to select the appropriate practice education mode of ideological and political education in colleges and universities and its value analysis according to the learner's characteristics, learning contents and objectives. Based on TIM Models, learning environment feature dimensions include initiative, collaboration, constructivist, authenticity, and goal orientation.

(2) Technology use stage dimension

In terms of the level selection of the dimension of technology use, this study refers to the division of the technology use phase of the SAMR model and the TIM model. The SAMR model divides the technology use phase into substitution, reinforcement, modification and remodeling, while the TIM model uses the technology use phase, which

is divided into introduction, adoption, adaptation, integration and innovation. The two are compared by simple comparison. The two levels of entry and adoption are in the process of actual technology use, the boundary is relatively vague, and the two can be merged, which is beneficial to improve the ideology of the ideological and educational education practice and its value analysis in colleges and universities. Therefore, after considering the SAMR model and the TIM model, we determine the level of the technology use stage dimension as substitution, reinforcement, fusion and reshaping.

(3) Subject dimension

The choice of subject dimension is to consider that the practice education mode of ideological and political education in colleges and universities education model and its value analysis in colleges and universities have strong disciplinary orientation, and various classification evaluation institutions at home and abroad. They are in the practice education mode of ideological and political education in colleges and universities in colleges and universities. In the value analysis, the dimension of the discipline is selected, and the selection of the discipline dimension in this classification study can help the teachers of different disciplines to quickly locate the ideological and educational education practice mode and its value analysis of the colleges and universities that they need. Therefore, based on the classification evaluation, the classification of disciplines is already on the website, and we set the level of the discipline dimension to language, English, mathematics, science (physical, chemical and biological) and liberal arts (geography, history).

3.7 Classification 3D matrix construction

The practice of association rules algorithm in the multi-dimensional the past proves that association rule algorithm matrix is helpful for guiding teachers to use technology efficiently in classroom teaching. Therefore, this study refers to idea of TIM model to construct three-dimensional model, including learning environment characteristics, technology use stage



and discipline. The matrix, as shown in Figure 2, is used in the practice education mode of college ideological and political education and its value analysis.

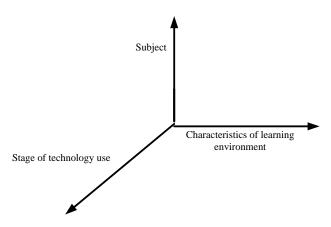


Figure 2 .The practice education mode of ideological and political education and its value analysis in colleges and universities

The learning environment dimension includes initiative, collaboration, constructivism, authenticity and goal orientation, which is in line with the software function of the practice education mode of ideological and political education in colleges and universities and its value analysis. The initiative means that the model is not only the teaching content, but it can be used as a tool for active learning. The collaboration means that the mode has the functions of sharing, instant messaging, etc., and can be used as a tool for synchronous and asynchronous collaborative learning. The constructiveness means that the model has scaffolding function and can assist learning. The relationship between the existing knowledge and the new knowledge is established. The authenticity refers to the real situation creation function, which can simulate the real life scene and assist the learner to complete the knowledge transfer. The target directivity refers to the pattern with task schedule

management and reflection. The other functions are to assist learners to record and monitor the learning process.

The dimension of technology use stage includes substitution. reinforcement, integration reshaping, and the software characteristics of the practice education mode of ideological and political education in colleges and universities and its value analysis in colleges and universities. substitution means that the mode is only to mobilize the classroom teaching activities, for example, the utilization mode. The content of the classroom teaching is released, so that the teaching content can be displayed on the mobile side. The strengthening refers to the mode to strengthen the traditional classroom teaching behavior, for example, using the mode to conduct classroom tests. The software background can display the test situation in real time, and feedback to the teacher. The model is not only an aid to classroom teaching, but also a part of classroom teaching. The model is not only a teacher's teaching tool, but also a student's learning tool. Reshaping means that the model can realize intelligent and personalized teaching and learning support, changing the tradition classroom teaching.

The learning environment feature dimension and the technology use phase dimension form a two-dimensional matrix. As shown in Table 1, it will constitute the first stage of the practice education mode of ideological and political education in colleges and universities and its value analysis. On this basis, the model discipline is combined. Pointing to the construction of a three-dimensional matrix, a more classification of the ideological and educational education practice and its value analysis is detailed.

Table 1.Two-dimensional matrix of learning environment characteristics and technology use phases

Learning				
environment	Replacement	Strengthening	Integration	Remodeling
characteristics				



Technical use phase				
Initiative	The function of education mode of ideological and political education in colleges and universities is only to transfer the teaching content in the textbook to the mobile display.	The function of education mode of ideological and political education in colleges and universities provides support for teaching content related to the teaching content, such as pictures, videos, etc.	The function of education mode of ideological and political education in colleges and universities provides a resource retrieval tool that learners can use to actively retrieve teaching-related materials and change passive reception into active inquiry.	The function of the education mode of ideological and political education in colleges and universities increases the rating and motivational functions of active inquiry, prompting learners to unconsciously use the ideological and political education practice education mode in the process of learning.
Cooperation	The mode of education mode of ideological and political education in colleges and universities is only to test the learners' existing knowledge level and present the learning objectives.	The education mode of ideological and political education in colleges and universities supports instant messaging and online discussion among team members, etc.	Functions of education mode of ideological and political education in colleges and universities support tracking and reminding progress of writing learning tasks	The functions of education mode of ideological and political education in colleges and universities support the real-time statistics on member engagement and contribution in functional group collaborative learning tasks.
Creation	The mode of education mode of ideological	The functions of education mode of ideological	The functional mode of ideological and	The functional mode of ideological and



	and political	and political	political	political
	education in	education in	education in	education in
	colleges and	colleges and	colleges and	colleges and
	universities is	universities	universities	universities is
	only to test the	provide the	provides a	the independent,
	learners' existing	necessary	learning	unconscious
	knowledge level	learning	environment and	construction of
	and present the	resources and	scaffolding tool	learners based
	_	search tools to	for learners to	
	learning	link learners		on existing
	objectives.		effectively	knowledge.
		with existing	promote	
		knowledge and	knowledge	
		new knowledge.	construction.	
			The functional	The role of
		The mode of	mode of	education mode
	The mode of	education mode	ideological and	of ideological
	education mode	of ideological	political	and political
	of ideological	and political	education in	education in
	and political	education in	colleges and	colleges and
	education in	colleges and	universities	universities
	colleges and	universities	provides	supports
Authenticity	universities is	supports the live	real-world	real-world
	only to present	situation of	contextual tasks	situational
	the learning	learning content	and the necessary	presentation and
	content related	for learners	tools to help	task resolution
	to the learner	through live	learners use	using virtual
	through pictures	video or	acquired	reality or
	and texts.	on-demand	knowledge to	augmented
		functions.	solve practical	reality
			problems.	technology.
			The education	The functional
			mode of	support of
Goal directness	The mode of	Education mode	ideological and	political
	education mode	of ideological	political	education in
	of ideological	and political	education in	colleges and
	and political	education in	colleges and	universities
	education in	colleges and	universities	provides
	colleges and	universities	provides several	cloud-based
	universities is	supports	gadgets such as	learning target
	only the display	learners'	calendars,	devices, tracking
	of learning	self-learning	notepads,	and feedback
	objectives,	goal setting,	spreadsheets and	functions, and
	guidance and	progress	timelines for	provides the
	feedback.	tracking and	developers to	necessary cloud
	recuback.	feedback	choose from for	· ·
				resource storage
			goal setting and	capabilities.



progress tracking.

The two-dimensional matrix of the practice education mode of ideological and political education in colleges and universities and its value analysis based on the association rule algorithm is essentially the feedback learning, collaborative learning, independent inquiry learning and real situation for the students in the classroom teaching process. In learning activities, the practice education mode of ideological and political education in colleges and universities and its value analysis are used as a technical element from the simple replacement to the reinvention of the application guidance in colleges and universities. The practice education mode of ideological and political education in colleges and universities and the value analysis of the classroom teaching process is mainly determined by its function and software characteristics. Different functions determine how much support it can provide for a specific learning activity in the classroom. For example, in the learning process based on real situation problems, the real presentation of the situation and the task delivery, the model at the alternative level is only used as a substitute for the teacher's picture display and text description of the real situation in the traditional classroom teaching. In the enhanced level mode, the video on demand and live broadcast functions can be used to present problems for the learner. For the real situation of the source and the mode at the fusion level, in addition to presenting the real situation for the learner, it can also provide a number of tools to help the learners to solve the problem. In the reshaping mode, the virtual reality or augmented reality technology can be used to restore the learning problem source situation to the learners and make the learners' knowledge transfer can be done in an immersive manner without leaving home.

Based on the association rule algorithm, the practice education mode of ideological and political education in colleges and universities and its value

analysis in colleges and universities are compared the existing single dimension-based classification. The characteristics are mainly reflected in: first, based on learning environment characteristics, technology use stage and subject, the three-dimensional classification model can be classified into the ideological and educational education practice and its value analysis in a more detailed way. Secondly, the existing SAMR, TPACK and TIM association rule algorithms are designed to accurately guide teachers' technical use, so as to realize the effective integration of technology and education teaching. Therefore, the college education policy practice based on association rules algorithm and its value analysis model have higher practicality, which is beneficial to teachers' practice education mode of ideological and political education in colleges and universities, the choice of its value analysis and its use in classroom teaching.

4. Conclusion

The practice education mode of college ideological and political education and its value analysis and use should be returned to the essence of education. Its application scope should not be limited to the outside of the classroom, but should go into the regular classroom teaching, give greater play to its role, and realize the thinking of colleges and universities. The political education practice and its value analysis and the deep integration of classroom teaching, substantially improve the teaching efficiency of teachers and the learning effect of students. The practical significance of the practice education mode of ideological and political education in colleges and universities and its value analysis based on the association rule algorithm is to realize the refined classification of the practice education mode and its value analysis of college ideological and political education, and help teachers and students choose the appropriate mode. It can



improve the classroom use efficiency of the existing educational model of ideological and political education and its value analysis in colleges and universities. Its long-term significance is to indirectly promote the practice education mode of ideological and political education in colleges and universities and its value analysis institutions in the future. We can consider the actual needs of teachers and students, realize the effective alignment between software functions and classroom teaching activities and students' classroom learning behaviors, so that the practice education mode of ideological and political education in colleges and universities and its value analysis can be realized from the practical problems of education and teaching. It can make us return to classroom teaching, help teachers and students solve practical problems in classroom teaching, and achieve closed-loop development from classroom to classroom.

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