

Guidelines to develop modern information technology to promote education quality in Qingdao Hengxing University

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ABSTRACT: The purposes are 1) to promote the co-construction and sharing educational resources through the development of modern information technology, 2) to enrich the content of education management and optimize the system of education management through the development of modern information technology, and 3) to improve education services and promote through the development of modern information technology. The population/sample for this research is Qingdao HengXing University, an application-oriented undergraduate university in China, including 200 education administrators, full-time teachers and so on. Through the investigation of education and teaching administrators and full-time teachers in Qingdao Hengxing University, 200 people were sent questionnaires, and 187 valid questionnaires were collected as samples to achieve the three goals of this study. The research instruments and procedures were developed to collect data for this study. The variables used for data collection in this study came from interviews with school education administrators and teachers in the form of questionnaires.

The results were found that 1) Information construction of application-oriented universities needs to be improved to meet the needs of high-quality application-oriented talents training in education. 2) Application-oriented universities should make full use of modern information technology to enrich the content of practical teaching and improve the management quality of education. 3) Application-oriented universities should make full use of modern information technology to establish and promote the improvement of education management level.

Keywords Modern information technology, Promote, education quality

1. INTRODUCTION

Today, science and technology, with network is undoubtedly to the school with a management mode more and more diversified, but also make the school slowly become full of vitality and creative learning places, also open independent environment.

In particular, undergraduate universities that cultivation of practical talents can quality education management through modern the Internet. How to actively modern applied undergraduate work, constantly enrich the content of education, effectively education

management, better cultivate students' lifelong learning attitude and active exploration and innovation ability, and become society is imperative.

This paper takes Qingdao Hengxing University, an application-oriented undergraduate university, as an example, through studying educational and its promotion in practice, many faced by educational management level in the development of the information age. It can not only orderly universities, but also help China's general undergraduate colleges and universities with applied technology as their orientation to find a way out of education management, so as

quality applied management, so that it can better serve the local and society, and meet the urgent need for high-level applied talents of continuous.

Reacher tries to solve the dilemma of China's application-oriented undergraduate education management by applying and developing modern information technology and improving the education management quality.

2. RESEARCH QUESTIONS

1. What is that adapt to the training of high-quality applied talents, educational resources are not shared, which education management?

2. What are the main factors that has not made information enrich education management quality?

3. What are the guidelines for provide support and education management services for the evaluation mechanism and supervision mechanism application-oriented undergraduate universities?

3. LITERATURE REVIEW

3.1 The concept and connotation of modern information technology

Jin Guohua. (2012). mentioned that college. He refers in the editor "Higher Education Teaching Reform and Innovation Exploration" that in the 21st century, knowledge innovation and its creative application have become an inexhaustible driving society, and become the country and the nation to enhance competitiveness.

Wang Yuyang. (2019). mentioned that the training feature of applied undergraduate universities. As an applied undergraduate universities, objectives the tendency of its.

Hei Ting. (2019). mentioned that the school cooperates closely with enterprises to expand the universities' practical teaching, enhance the application ability, and initially form its own characteristics in the innovation of system exploration models. The preliminary results in theoretical research and practical exploration of practical teaching work will also make a greater contribution to the cultivation of higher-quality applied talents.

Cheng Qiyong. (2020). a lecturer in the Academic Affairs Office of Sichuan University of Technology, China, mentioned that in education and teaching reform, advanced mathematics and applied mathematics research. He presided over the general research project of the Sichuan Private Education Association in 2019.

3.2 Quality of education management in applied universities

Ge Junfeng.(2014). mentioned effectively promote reform of colleges and universities, as early as 2014, Mr. Ge Junfeng from the Research Equipment Division of Jining Normal University in China pointed out the need reform measures in college education.

Zhang Lihao. (2018). mentioned that the method is not simply preaching and flat education, but a way of absorbing the advantages of the Internet and using the network platform to provide students with more sufficient educational materials.

Chen an. (2019). mentioned that explore the construction of new forms of textbooks comprehensive use and multiple media to abundant diverse independent resources. Promote teachers to reform teaching methods.

3.3. The concept of guidelines for quality applied

Zhang Guoyong. (2020). mentioned that Reformmentioned that modern gradually entered management due to its own advantages.

Wei Jihong. (2018). mentioned that applied undergraduate kind history of specific is constantly developing.

Hong Dandan. (2020) . mentioned that such course setting, textbook construction and other basic work links, the applied subject system is relatively ignored.

Wang ming. (2018). mentioned that the application-oriented undergraduate application-oriented information, such society.

3.4 Related research

Fan Mingtao. (2019). Mentioned.

Zhu Maolin. (2015). mentioned that focus on improving students' overall quality and basic abilities, reshape, update reform teaching models. Timely and the industrial technology progress and practical experience into relevant courses.

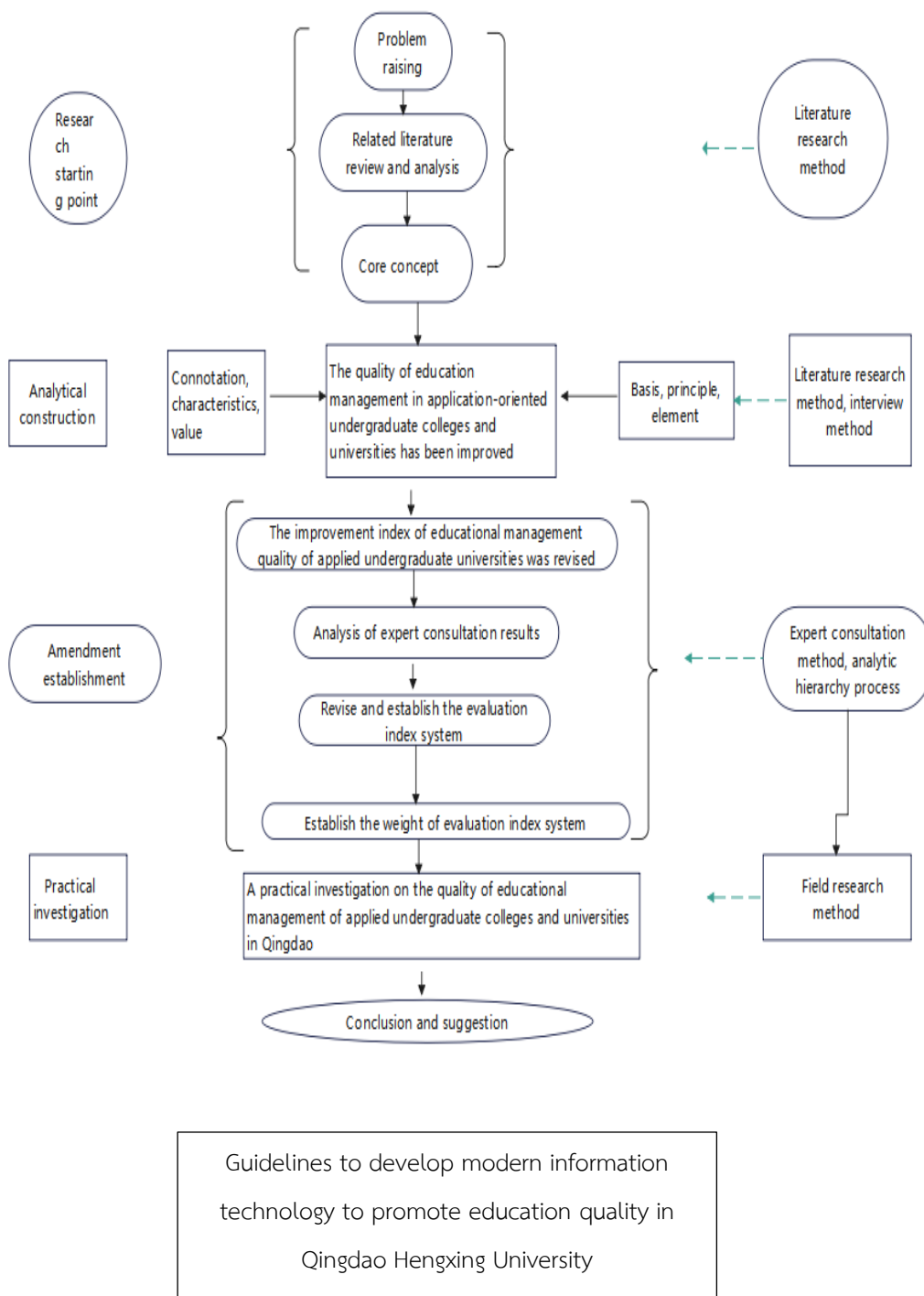
Ge Ming. (2020). Colleges and universities.

Li Yongtong. (2019). Use Information Technology to Effectively Promote Teaching.

Song Xiaoming. (2020). Exploration of Education and Teaching Reform and Informatization Innovation in Colleges and Universities.

4. RESEARCH CONCEPTUAL FRAMEWORK

Figure 1 Research Framework



5. OBJECTIVES OF THE RESEARCH

1. To promote the co-construction and sharing educational resources through modern information technology.
2. To enrich the content of optimize the system of education management through the development of modern information technology.
3. To improve education services and promote the quality of education management through the development of modern information technology.

6. RESEARCH METHODOLOGY

6.1 Population and Sample

6.1.1 Population

This paper takes Qingdao HengXing University, an application-oriented undergraduate university in China, as an example, including 200 education administrators, full-time teachers and so on.

6.1.2 Sample

The sample of questionnaire group

This study conducted a questionnaire survey on 200 academic administration personnel and full-time teachers in Qingdao HengXing University. A total of 200 questionnaires were issued and 187 valid questionnaires were recovered. Aiming at the three objectives of this study, 187 people were selected as research samples.

Research Instruments

On the whole, the research method of this paper adopts the following methods: "Raising problems (pointing out the problems existing in the process of developing modern information technology to promote the quality of education management of application-oriented undergraduate universities in China) -- analyzing

problems (analyzing the reasons for the problems existing in the application of modern information technology to the education management of application-oriented undergraduate universities in China from many aspects) -- solving problems (introducing education informatization, teaching informatization, and response This paper guides the educational management of application-oriented colleges and universities with relevant theories such as application-oriented personnel training mode, and puts forward countermeasures on how to improve the quality of educational management of application-oriented colleges and universities in China through the development of modern information technology. "Technical route.

7. RESEARCH RESULTS

Part I General characteristics of sample group.

The feedback results of the questionnaire are summarized as follows. Younger teachers are more likely to use educational information technology than older teachers. The education management of strengthening practice teaching has not yet formed a consistent and universal idea. In some teachers, the understanding of the mode importance of strengthening practical teaching still remain on the surface to some extent and lack of deep understanding. Even if the concept has been recognized, but limited by conditions, environment, foundation and other factors, wait-and-see, waiting, perfunctory phenomenon has a certain universality. The management level of practical teaching in schools needs to be improved. On the whole, the proportion of teachers who can adapt to practical graduated from engaged work in schools. Lack special training in practical teaching links, so they cannot become experts themselves and are unable to be competent for relevant practical guidance work.

Table 1 The results of the questionnaire (General characteristics of sample group)

Questions 1-3	Items	frequency	percent
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1. What is your gender? [Single choice]

Option subtotal ratio		
A. Male	44	23.53%
B. Female	143	76.47%
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2. What is your age? [Single choice]		
Option subtotal ratio		
A. Age 18-35	128	68.45%
B. Age 35-45	47	25.13%
C.45-55 years old	8	4.28%
D. Over 55 years old	4	2.14%
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3. What is your educational background? [Single choice]		
Option subtotal ratio		
A. Junior college	1	0.53% below
B. Junior College	2	1.07%
C. Undergraduate	146	78.07%
D. Master	29	15.51%
E. Doctor	9	4.81%

Table 1 shows that among the 187 valid questionnaires, 44 were male, accounting for 23.53%, and 143 were female, accounting for 76.47%. There were 128 people aged 18-35, accounting for 68.45%; Aged 35-45, 47 (25.13%); 45-55 years old, 8 people, accounting for 4.28%; Over 55 years old, 4 people, accounting for 2.14% of the education is junior college or less, 1 person, accounting for 0.53%; Junior college, 2 people, accounting for 1.07%; Undergraduate students, 146, accounting for 78.07%; Master degree, 29 people, accounting for 15.51%; Doctors, 9 people, 4.81%.

8. CONCLUSION AND DISCUSSION

8.1 Conclusion

Comparing with data analysis results of relevant studies in Corresponding to the three purposes of this study, the data analysis relevant studies are as follows:

1. Construction to meet quality training in education and teaching.

The undergraduate of applied technology should focus on the word "application" as the core, in order subject, a new a new that needs update the content and comprehensively improve. The greatest impact of information technology on educational management is to promote the renewal educational technology has great innovation in educational management, especially on the basis of educational technology changes, modern educational technology such as audio, video and VR bring students a more intuitive experience, and students find problems in the continuous changes, so as to achieve deeper teaching reform and better development. For teachers, it plays a very important role in the innovation of teachers' teaching means, especially in the reform of educational concepts. In addition, it is necessary for schools to develop

network resources, establish education management mechanism, improve teachers and students' modern information technology literacy, increase hardware investment, increase software investment, and increase school network resources construction, competitive ability.

2. Application-oriented undergraduate universities should make full use of modern information technology to enrich the content of practical teaching and improve the management quality of practical teaching.

The teaching facilities and training bases for cultivating high-quality applied talents cannot meet the needs and limit the enthusiasm of teacher education and teaching reform. Practice and training simulation sites limit students' opportunities for practical ability development. The existing training facilities are far from meeting the needs of teaching practice. In addition, the proportion of teachers who can adapt to practical training is not very high. A large number of young teachers lack special training in practical teaching, and some are not qualified for the relevant practical guidance work. There is no consensus on strengthening practical teaching in applied universities. To a certain extent, the understanding of the mode of training applied talents and the importance of strengthening practical teaching in universities is still relatively shallow and lacks in-depth understanding. It is necessary to continue to invest money, manpower and emotion in this field, and change the deficiencies of practical teaching content and system through the development of modern information technology, so as to ultimately improve the quality of education.

3. Application-oriented undergraduate universities should make full use of modern information technology to establish and improve the evaluation mechanism of education management system and promote the improvement of education management level.

In the current situation of social development, the development of information technology has promoted the innovation of educational management, which has a great impact on the growth and development of students. On the

basis of the change of information technology means, the change of educational management evaluation also takes place. At present, the transformation of educational management evaluation mode brought about by the reform of resource sharing information technology is pushing application-oriented universities to update data management constantly. A large number of education management system evaluation starts from data, teachers and students can evaluate each other in the constantly updated education management system through data analysis. Establish and improve the special evaluation mechanism of teaching management, and clarify the evaluation criteria and methods. It is particularly important to develop modern information technology, encourage innovation, encourage reform, implement teachers' post responsibilities and update educational administration evaluation mechanism.

To sum up, with the rapid development of science and technology in modern society, with the popularization and application of information technology, the importance of using computer and network technology has been highlighted in daily teaching and management. Through the use of modern information technology, the classroom teaching content of college teachers is becoming more and more rich, and the teaching methods are becoming more and more diversified. In particular, application-oriented universities that focus on the cultivation of practical talents can better promote the in-depth integration of modern information technology and application-oriented undergraduate teaching reform through the combination of online teaching and offline teaching of the Internet, continuously enrich educational content, effectively improve teaching quality, and better cultivate students' attitude of lifelong learning and ability of active exploration and innovation. To become an applied talent needed by the society. Under the condition of resource sharing supported by modern network technology, how to use modern information technology to promote the teaching reform of application-oriented universities has become a top priority.

China's application-oriented universities teaching reform faces many problems. Qingdao HengXing University, as an application-oriented university in China, effectively uses and promotes strives to find a breakthrough, and achieves the sharing of information resources through the Internet, reflecting the value of information technology teaching resources in modern education and teaching. Better promote the teaching reform of universities, effectively improve the teaching quality of universities.

8.2 Discussion

Research on the urgent problems that promotes the teaching reform of applied undergraduate colleges in Qingdao HengXing University, China.

Solve the problem that modern information technology promotes the teaching reform of Qingdao HengXing University. Based on the fact that the university is a general undergraduate University with applied technology as its educational direction, rather than an academic undergraduate University. It is opposite and different from academic undergraduate (general undergraduate). Plays a positive role in satisfying China's economic and social development, promoting the demand for China.

1. The school management application of education informatization, and the teaching means and methods to adapt to the insufficient.

Through educational reform sharing resources, the innovation of teaching methods and means can educational management universities.

"Applied Technology undergraduate" is a new type of undergraduate education and higher vocational education combined with a new level of education mode exploration. Some provincial general undergraduate colleges, national demonstration higher vocational colleges and national large-scale backbone enterprises jointly pilot training of applied technical undergraduate talents to meet the needs of social and economic development. With the word "application" as the core, the undergraduate course of Applied Technology aims to build a new subject direction, a new professional structure and a new curriculum system that meet and adapt to the needs of economic and social development,

update the teaching content, teaching links, teaching methods and teaching means, and comprehensively improve the teaching level. Cultivate high-quality applied talents with strong social adaptability and competitive ability. However, many application-oriented undergraduate colleges have shortcomings. This is decisive. If education management can not solve these problems directly, deeply understand these problems, and accept the practical value of information technology teaching reform based on resource sharing, it will be difficult to achieve deeper reform and innovation. Educational managers should fully realize the practical significance of information technology to the reform of education and teaching, especially to the promotion and development of personnel training. The application of educational informatization must make full use of the current educational and teaching achievements, promote the educational reform of schools, and thus promote the overall growth and development of students.

2. Promotion of modern information technology, the teachers of application-oriented undergraduate colleges have reformed and innovated the concept of education management, and the teaching facilities and training bases for cultivating high-quality application-oriented talents cannot meet the demand.

The development of the current society requires more teachers to have the courage to self-analyze, to face their own problems in the teaching process, to accept new educational concepts, to follow scientific educational laws, so as to realize their own understanding of education and teaching. In fact, there are two factors that determine the quality of teaching, one is the teacher and the other is the student. Teachers' teaching quality affects students' learning quality to a great extent. Information technology based on resource sharing is of great significance to the reform of education and teaching, which requires the joint efforts of all teachers to achieve greater development. Teachers must change their educational concept and recognize the great value of information technology. According to the observation and research, most teachers are willing to change their way of education, but it is inevitable that

some teachers lack the ability to change, especially some older teachers are unwilling to change their way of education. No consensus has been reached on strengthening practical teaching in application-oriented universities, and some college teachers' understanding of the mode of cultivating application-oriented talents and the importance of strengthening practical teaching remains superficial to a certain extent, lacking in-depth understanding. Even if they have a conceptual understanding, they are limited by conditions, environment, foundation and other factors, and the phenomenon of wait-and-see, waiting, and perfunctory still exists. The teaching staff of application-oriented practice teaching needs to be improved. On the whole, the proportion of teachers who can adapt to practical training is not very high. A large number of young teachers from universities directly enter the school to engage in teaching work, lack of special training in practical teaching links, so temporarily cannot become experts, some of them are not competent for the relevant practical guidance work. In this sense, teachers with rich teaching experience and teaching experience are needed to play a leading role in driving young teachers to effectively improve the quality of education and teaching.

In addition, the multimedia teaching facilities in the application of modern information technology are insufficient, which cannot meet the needs of teachers in the teaching environment such as case teaching and practice demonstration, which limits the enthusiasm of teacher education and teaching reform. Simulated internships and training venues will limit students' opportunities for practical ability development. The existing training facilities are far from meeting the needs of teaching practice. At present, the construction of off-campus practice base is weak and cannot meet the needs of teaching practice. At present, the practice base has the phenomenon of floating form. On the one hand, this can be attributed to the tendency of managers to maximize short-term profits after the restructuring of Chinese enterprises. On the other hand, this is also due to the limited financial, human and emotional investment in this field.

3. Information technology to promote the reform of education structure, establish and improve the evaluation mechanism of education and teaching and the service and supervision function of education management, so as to improve the quality of education management of application-oriented universities.

Therefore, the current information technology has a more obvious guiding are more willing to accept the new teaching methods. Students' innovative learning methods will enrich the content education. The innovation will reflect the effect of educational management reform and innovation in application-oriented universities.

It has a strong impact on students' transformation and development, and also innovates students' learning methods to a certain extent. On this basis, students' cognitive level will also change greatly through the realization of more in-depth updating of teaching means and the transformation of teaching methods. Students rely on the Internet to learn and master the knowledge system within the scope of the Internet. Students' cognition gradually turns to autonomous learning. Knowledge on the Internet has been able to greatly satisfy students' learning and cognition, and students must make greater breakthroughs in the process of continuous learning and practice. With the help of modern information technology, the cognitive level of students has been continuously improved, and the teaching methods have also undergone greater changes. Under the current teaching method, students' learning mode will also change and constantly update, so as to improve their learning ability. The innovation of students' learning methods will inevitably bring better learning effect and experience, enhance students' innovative ability and practical ability, give full play to students' subjective initiative, and then achieve greater breakthroughs and better learning results, and fully reflect the effect of applied undergraduate education reform and innovation.

9. RECOMMENDATIONS

1. Recommendations for research findings enriches teaching content, innovative instructional design.

The extensive application way through informationized promoting teaching reform will surely achieve good results.

Internet technology has realized knowledge sharing all over the world and gathered the wisdom of many people. Global knowledge sharing has helped teachers form knowledge reserves of both depth and breadth. The personal vision of teachers, which determines the quality of teaching design and the depth and breadth of teaching content. The Internet connects all online and offline knowledge with people. Teachers of application-oriented undergraduate universities can make full use of Internet knowledge to help realize knowledge growth. Resource sharing has greatly promoted the improvement of teachers' personal knowledge ability, and also greatly enriched the teaching content, which plays a very important role in the growth and development of students.

The sharing of resources brought by the innovation of information technology also drives the innovation of educational technology and the renewal of educational ideas. The combination of online and offline teaching is based on the renewal and reform of educational ideas. Based on the sharing of resources and the integration of ideas, teachers' teaching design has also undergone great changes, more prominent students' dominant position, to promote the healthy development of students.

2. Modern information technology updates teaching methods, it has great innovation for classroom teaching, especially on the basis of changes in educational technology.

Modern educational technology such as audio, video and VR brings students more intuitive experience, students find problems in the continuous changes, so as to achieve deeper teaching reform and better development. The most important effect of information technology on teaching reform is to promote the renewal of teaching means, especially the reform of educational ideas.

First, Combination of hard work, work-study training model, the implementation of flexible learning system. The school continues implement a variety of models, and promote orderly training for enterprises. Keep close contact model school and classroom. Establish an internship system for enterprises to accept students. We will gradually

establish and improve the work-study system, carry out free vocational education trials in some colleges and universities, and gradually promote it after accumulating experience.

Second, Learning effectively strengthen practical teaching.

Third, adhere to both academic education and vocational qualification training, and implement a "dual certificate" employment mechanism for application-oriented talents with graduation certificates and vocational qualification certificates.

3. Evaluation of modern information technology innovation education, reform and improve the mechanism for training application-oriented personnel.

Modern brings about changes in educational evaluation. For example, at present, the transformation of educational evaluation mode brought about by the resource-sharing information technology reform is promoting application-oriented undergraduate universities to constantly update data management. A large number of educational evaluation starts from data. Students can carry out educational teaching evaluation and self-learning evaluation in the continuous update through data analysis, which promotes the smooth progress of teaching reform in universities.

Managers organize and coordinate manpower, resources, and effectively achieve the objectives of education management. Educational administrators use educational laws, decisions, orders, instructions and rules to provide strong guidance, regulation and influence on educational activities. The development of education should be planned according national economic education. To guide, regulate and influence educational activities from the perspective of economics, and to use the motivation theory behavioral science in educational management activities to stimulate and mobilize the enthusiasm of educational personnel.

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