

## Research on Teaching Reform of Animal Husbandry and Veterinary Specialty Courses Based on Information Technology

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**Abstract:** At this stage, China's information technology develops at a high speed, and the information management and processing technology is also strongly improved. At the same time, it can effectively improve the teaching mode, improve teaching methods and teaching methods, and optimize teaching ideas. The vocational animal husbandry and veterinary profession itself is a course to cultivate professional talents. Therefore, the traditional focus on book teaching can no longer meet the needs of the times. However, the generation of information technology fully and effectively provides opportunities for the development of higher vocational animal husbandry and veterinary profession. By describing what is the education of higher vocational animal husbandry and veterinary industry, analyzing the current situation and existing problems of the professional animal husbandry and veterinary professional curriculum, and fully utilizing the informationization to implement the reform of the teaching of higher vocational animal husbandry and veterinary courses, improve the teaching mode and classroom teaching efficiency. And the cultivation of long-term time technology. It will better cultivate the talents that provide the foundation for the rapid development of the motherland, and train outstanding talents in the frontline work of production, management and construction in the animal husbandry and veterinary industry.

### 1. Introduction

Higher vocational education is the goal of cultivating technical talents. While paying attention to textbook learning, it pays more attention to the importance of practice, and takes technology application as the main body to achieve the result of engineering and learning exchange. Each school has its own joint enterprise. Students will also focus on the ability to practice innovation in their daily learning. Employment is the main development goal, and students' professional skills will be continuously improved to cultivate the technical talents needed by the society. The main tasks of vocational animal husbandry and veterinary education are to study and implement the diagnosis, treatment, prevention, quarantine and animal product hygiene inspection of livestock and poultry diseases, and to cultivate theories and technologies related to animal feed preparation, breeding technology, feeding management, disease diagnosis and control, and Senior skilled talents engaged in farm production technology and management, animal outpatient, feed and veterinary drug marketing.

### 2. The current situation and existing problems of the professional animal husbandry and veterinary professional courses at the present stage

The knowledge that students learn in their daily textbooks must be fully integrated with the actual situation, but once students have a class focused on psychology, it will lead to disordered teaching order in the class, students do not like to listen, and the cart before the horse. Even if we focus on practical teaching, we need to master the knowledge in books first. This is the beginning of learning everything. Students should fully understand this. In the class, the teacher's traditional teaching mode can not attract students' attention, so it is necessary to innovate ways to improve the quality of professional courses. In the daily teaching process, we must fully grasp the assessment methods, so

that students pay attention to this course, create a good learning environment, and make full use of information technology for real simulation teaching.

### **3. The application of information technology to improve teaching quality**

The vocational animal husbandry and veterinary specialty mainly trains outstanding talents in the frontline work of production, management and construction of animal husbandry and veterinary industry, pays attention to practical operation ability, has high practical and efficient operation technology and daily living and learning ability. This course not only requires students to fully grasp the relevant knowledge in the book, but also needs to master the corresponding skills. In the traditional board-book mode, students can't fully grasp the practical skills, and the board-book mode will make students bored and dispel the enthusiasm of students. Therefore, most schools carry out the teaching mode of combining work and study. After the students have studied for a period of time, they organize practical activities and fully grasp the daily learning conditions to provide students with practical and practical skills.

#### **3.1 Ways to improve the teaching of practical technology**

In the internship process of veterinary profession, there is a high risk and cost. The risk refers to the practice of internship operation. If bird flu is encountered, if the farm is conducting experiments, causing the spread and spread of the disease, the aggression of the animals, these It will pose a threat to the safety of human life. And the most common problem encountered in practice is that the knowledge that is learned everyday is inconsistent with the situation encountered in the actual operation. This situation occurs because the animals produce different activities at the same time as the season changes. In this case, information technology plays an important role in solving problems. We can use information technology to carry out simulation teaching, present teaching content with intuitive and vivid teaching pictures, simulate experiments with simulation technology, and display disease prevention and control with video. The visceral anatomy process to achieve the role of optimizing the teaching environment and improving practical ability.

In daily study, we can use information technology to let students learn some experimental operation skills first, and have a preliminary study on the practical activities to be contacted in the future. For example, by learning to give intravenous injections to animals, we can teach by video. Let's take a look at it to prevent students from violating the rules during the implementation process. In the process of learning prevention knowledge, students can first understand the characteristics and pathology of the disease, so that students have a concept and cognitive level of the disease, and when appropriate, they can take appropriate protective measures in time. In practice, many of the diseases described in books are uncommon diseases in real life, so it is difficult for students to get in touch with this situation in practice activities. However, through the simulation teaching of information technology, students can fully grasp the relevant Operational skills and immersive learning are more helpful to students' mastery of clinical skills.

#### **3.2 Optimization of practice activities**

Animal husbandry and veterinary is also an excellent talent for cultivating first-line work in the production, management and construction of animal husbandry and veterinary industry. Teachers need to pay full attention to the practice activities and establish corresponding assessment mechanisms. In daily study and practice, students should fully respond to the problems of future employment development, so the assessment mechanism must be realistic, so that students in the animal husbandry and veterinary industry can reduce the time to adapt to future jobs. Like: Using information simulation technology to enable students to understand the time content and environment, improve the authenticity, accuracy and vividness of practice assessment, taking microscopic observation as an example. If you use 3D technology to make students understand the structure of the microscope, during the test, let the students observe the microscope and fill in the corresponding parts in the corresponding spaces, thus assessing the students' practical ability and more effectively

consolidating the students' professional skill.

#### **4. The application of information technology to optimize the classroom**

##### **4.1 Improve teaching content**

Under the traditional teaching mode, the teacher through the traditional board-book teaching process, the students master only the knowledge in the book, but the time-handling ability is very poor, which violates the goal of training talents in higher vocational schools, so we need to improve our teaching content, the content of the teaching is interesting, the teaching form is diversified, and the teaching mode is innovative. Full application of the information model to the teaching content is the original boring teaching content becomes vivid, and the static picture is turned into a dynamic video, which is the interest of students in learning, and the teaching atmosphere in the classroom is gradually improved. So that students have a strong knowledge base in this area. For example, in the traditional telling model, the model is described by the teacher, but now the development of informationization, teachers can pass three-dimensional imaging. Make students more deeply grasp the learning content. In the process of improving the teaching content, we must abandon the teaching philosophy of the teacher-centered and student-assisted, and should do it. The students and teachers should learn together and make progress together, so that the students can fully grasp the dominant position in the process of learning. Teachers improve the teaching content, transform the Abstract and boring learning content into professional knowledge that is easy to understand and vivid, and edify the teaching atmosphere. The students' learning enthusiasm will naturally improve, and the students' basic knowledge will also improve.

##### **4.2 Improve the teaching environment**

The teaching environment determines the enthusiasm of students to learn, and it is an effective means to improve classroom teaching. The student's learning environment is the main place for students to explore and learn. We can effectively improve the teaching environment through information technology, create a more intuitive, vivid and visual teaching atmosphere, and enhance students' interest in learning. In daily teaching, you can use information technology, use video and pictures to increase the color of the classroom, ask students questions before class, let students learn knowledge with tasks, and then apply what they have learned in practice. .

In the course teaching, network resources can broaden students' knowledge horizons, provide students with a wide range of development platforms, and use relevant teaching software to improve students' interest in learning. At this stage, students have a mastery of electronic devices. The application of teaching software can reduce the phenomenon of students playing mobile phones in class, and at the same time use Internet resources to assist students in teaching, and to provide the latest disease care knowledge and legal policies through the Internet. Relevant technologies and other knowledge are introduced into the classroom to improve the knowledge of the students' cognitive society. The learning content is novel and vivid. For students, they can also have a general understanding of the animal husbandry and veterinary profession.

#### **5. Improve the course teaching**

Effective use of information technology can intuitively, vividly and interactively teach knowledge points to students, integrate animal husbandry and veterinary professional curriculum resources through information networks, and diversify teaching models. Under the rapid development of simulation technology, Better promote the reform of professional curriculum teaching.

##### **5.1 Simulate teaching mode**

In the past teaching process, teachers will focus on both professors and experiments in most cases. Only by combining these two methods can we harvest good teaching results, but it means the boring book knowledge through indoor teaching. It is difficult to improve the students' interest in learning.

However, the current simulation technology effectively solves this problem. Through the Internet simulation and simulation technology to promote the reform of the teaching model, teachers can make repeated visits to the video, so that students can fully grasp this content and improve classroom learning efficiency. For example, the resection operation allows students to master the resection technique through the stereoscopic presentation of the video and use the 3D effect to reveal the structure of the resection site. This method of indoor learning allows students to have a preliminary understanding of the problems encountered in practice. It is conducive to students to understand the experimental equipment, the experimental process, and promptly ask questions, teachers to give corresponding solutions.

## **5.2 Autonomous learning training**

Self-directed learning is the opposite of traditional cramming education. Under this model of education, students can take the lead and actively reform according to their own learning and accepting abilities, and improve their learning efficiency. Improvement will greatly improve the learning efficiency of the entire class and improve the learning atmosphere. In the daily class training, only the practice of after-school exercises or the text practice of the book content, obviously can not improve the students' operational ability and practical ability, so the information simulation simulation is introduced into the classroom to fully and effectively solve this problem. The problem, using the corresponding software, the video and pictures into the classroom, simulation simulation in the context, the establishment of simulation simulation system in the classroom, timely testing of professional knowledge, can also strengthen difficult answers, focus on analysis. Effectively distinguishing from the traditional learning method, it is more effective to improve the learning process and the mastery of practical skills.

In addition, information technology can be scored according to the student's learning situation, so that students have a good boundary with their self-awareness. In the use of Internet operation software, students can effectively solve the common problems of students' fun in class. The students' attention is focused on adjusting the enthusiasm and creativity of the students and achieving good training results. While making mistakes or mastering well, use the expression pack to give encouragement and let the students experience the fun of learning. Fully realize the combination of teaching and practice, so that students can effectively contact the working environment in the future and adapt to the development goals of higher vocational colleges.

## **6. Conclusion**

In summary, in order to improve the efficiency of teaching, it is necessary to adapt the teaching reform accordingly. Based on the information technology, the high-level animal husbandry and veterinary professional courses are effectively reformed. Under the environment, in line with the development model of the times, Internet technology can bring more effective learning outcomes and interest to students.

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