

Research on the Path of Integrating massive open online course Reverse Classroom into the Investigation Teaching of Corporate Crime Cases

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Abstract: With the rapid development of information technology, “Internet+education” has become the main direction of current teaching reform. As an important required course of economic investigation major in public security colleges, corporate crime investigation has strong theory, practice and application. This paper expounds the research significance of teaching reform, analyzes the implementation process of pre-preparation and resource integration, online learning, reverse classroom teaching, curriculum evaluation and feedback, finds out the existing problems in teaching content adaptation, information technology support, students’ autonomous learning and teachers’ ability, and puts forward some improvement measures, such as selecting teaching resources, perfecting technical support and platform services, strengthening learning supervision and evaluation, and improving teachers’ teaching ability.

Keywords: massive open online course; Reverse the classroom; Teaching; path

Report to the 20th CPC National Congress of the Communist Party of China emphasized: “Education, science and technology and talents are the basic and strategic supports for building a socialist modern country in an all-round way. We must adhere to the principle that science and technology are the primary productive force, talents are the primary resource, and innovation is the primary driving force. We must thoroughly implement the strategy of rejuvenating the country through science and education, the strategy of strengthening the country through talents, and the strategy of innovation-driven development, open up new fields and new tracks for development, and constantly shape new kinetic energy and new advantages for development. “Under the background of accelerating educational modernization, colleges and universities should continue to promote the reform of discipline system, teaching system, teaching material system and management system, implement innovative literacy education, strengthen the “Internet+education” and expand the coverage of quality education resources. As the top priority of higher education reform, undergraduate education teaching reform is related to the direction and development of higher education for a long time to come. Changing the traditional teaching mode, changing the direction of teachers as teaching subjects to students as teaching subjects, and introducing artificial intelligence to realize learning and education in multi-time and space are the main directions of current undergraduate education and teaching reform.

1. The implementation process of massive open online course’s reverse classroom integration into the investigation teaching of corporate crime cases

1.1 Pre-preparation and resource integration

According to the characteristics and requirements of the course of corporate crime investigation, the teaching objectives are clarified and the knowledge points that need to be mastered are sorted out. Search and screen high-quality massive open online course resources related to corporate crime investigation, such as related courses on the well-known massive open online course platform at home and abroad. MOOC curriculum resources that are closely related to the reversal of classroom curriculum objectives and suitable for our school and students of this major can be directly used for pre-class preparation. Resources that deviate greatly from the course objectives can be applied after integration and secondary development, or absorb the essence, and make their own micro-videos and training questions for students to learn before class. Ensure that it is highly relevant to the course objectives and suitable for students of this major. In view of the key points and difficulties in the course, make short and concise teaching videos, and control the duration of each video within the scope of students’ attention, and prepare teaching materials supporting the video, such as PPT, cases, test questions, etc.

1.2 Online learning

Before the start of the course, inform the students of the course arrangement and learning requirements by email, SMS, etc. Students watch teaching videos within the specified time, learn relevant knowledge points independently, and complete online homework according to the video content to consolidate their knowledge. Students can ask questions and share their experiences in the online discussion forum, and teachers can answer questions in time and guide students to think deeply.

1.3 Flip classroom teaching

First of all, teachers focus on the problems that students encounter in pre-class learning; Secondly, students discuss in groups according to the online learning content and share their learning experience; Then, teachers organize students to deepen their understanding, mastery and application of knowledge points through case analysis, role-playing and actual combat drills, encourage students to ask questions and share solutions, and cultivate students’ critical thinking and problem-solving ability; Finally, the teacher summarizes and guides according to the students’ speeches.

1.4 Curriculum evaluation and feedback

Curriculum evaluation includes not only students’ evaluation, but also teachers’ self-evaluation. Students evaluate the course content, teaching methods and teaching effects, and put forward suggestions for improvement. According to students’ feedback, teachers evaluate the effect of curriculum implementation and constantly optimize the teaching plan. In addition, it is necessary to carry out diversified evaluation,

adopt online test, group work, classroom performance and other evaluation methods to comprehensively evaluate students' learning effect, pay attention to process evaluation, and pay attention to students' performance and progress in the learning process. Finally, according to the evaluation results, the teaching process is improved in time and the teaching scheme is continuously optimized.

2. The main challenges in the teaching process

2.1 On the adaptation of teaching content

The course of corporate crime investigation involves law, economics, management and other disciplines, and the reverse class in massive open online course needs to produce or collect high-quality teaching videos, courseware and other resources. To ensure that the content of teaching resources covers all aspects of case investigation, realize the effective integration of interdisciplinary knowledge, and effectively transform the legal knowledge and investigation skills involved into a form suitable for online learning and reverse classroom, it requires teachers' professional knowledge and teaching experience. In addition, laws, regulations and criminal means are constantly changing, and the forms of corporate crime are becoming increasingly complex, which requires the teaching resources to be updated in time. Therefore, the adaptation of teaching resources is the primary problem in massive open online course's reverse classroom teaching.

2.2 Information technology support

In the process of integrating massive open online course reverse classroom into the teaching of corporate crime investigation, information technology support will face the following difficulties: First, the platform construction is relatively backward. At present, the application of reverse classroom still lacks an efficient operating platform. The existing platforms, such as "China University massive open online course Network", are professional platforms, but they are positioned as learning platforms for the public, which are not completely suitable for course teaching. Secondly, the quality of video sources is uneven. High-quality teaching video needs professional recording equipment and post-processing technology, and needs corresponding technical support and capital investment. Third, the terminal hardware equipment has complicated functions. When watching teaching resources, students use different terminal hardware devices with complicated functions, which is not conducive to students to concentrate on their studies. The compatibility and performance differences of different devices may also lead to the failure to play teaching videos normally or the poor viewing effect. Therefore, terminal hardware devices suitable for reverse classroom teaching should be selected and managed and optimized in a unified way.

2.3 Students' autonomous learning

The reverse classroom requires students to learn by themselves through online resources such as massive open online course before class, and to discuss and practice in class. Some students lack the habit and ability of autonomous learning, and can't effectively complete the task of learning before class without the direct supervision of teachers. The differences caused by learning ability and speed may be magnified in the reverse classroom mode, and some students can't keep up with the progress. Therefore, it takes time for students who are used to the traditional teaching mode to adapt to massive open online course and reverse the classroom learning style. In addition, the course of corporate crime investigation is highly specialized and boring for some students. How to stimulate students' interest and participation is also an urgent problem to be solved.

2.4 In terms of teaching staff

In the reverse classroom model, teachers change from traditional knowledge imparting to guiding and assisting. Students need to use what they have learned before class to discuss and solve practical problems. In the course of corporate crime investigation, due to the complexity of the case, teachers need to balance the discussion direction of students, avoid the discussion deviating from the theme, and guide students to use correct investigation thinking and methods, which is a great challenge to teachers' classroom organization and guidance ability. In addition, teachers' professional knowledge of computer is not enough to support the production of high-quality teaching videos, which makes it difficult to ensure the quality of videos. In order to meet the teaching needs of massive open online course and reverse classrooms, teachers need to receive relevant training and guidance to improve their teaching skills and information technology application ability.

3. The Improvement Measures of Integrating the Reverse Classroom into the Investigation Teaching of Corporate Crime Cases in massive open online course

3.1 Selected teaching resources

In order to optimize the course of integrating massive open online course's inverted classroom into the teaching of corporate crime investigation, we should select massive open online course resources. From the content point of view, we should clarify the teaching objectives of massive open online course's inverted classroom according to the professional characteristics of corporate crime investigation, select knowledge points and skills points closely related to the course, classify the selected knowledge points according to the standards of memory, understanding and ability improvement, and clarify the tasks and objectives of each category to help students clarify the key contents. Formally, massive open online course resources should cover basic concepts, investigation processes, relevant laws and regulations, as well as interactive elements, such as online discussion and quizzes, so as to improve students' participation, ensure that the contents of massive open online course and the reverse class complement each other and form a coherent teaching system. In addition, teachers should combine the latest cases and laws and regulations to update and improve the course content and maintain the effectiveness.

3.2 Improve technical support and platform services

The following aspects should be taken into consideration in terms of technical support and platform service when massive open online course Reverse Classroom is integrated into the course of corporate crime investigation: First, strengthen the construction of technical platform, optimize video recording and production, ensure that the teaching video content is clear and coherent, and add multimedia elements, which is both accurate and interesting; Second, build an efficient operation platform, develop or introduce a specialized operation

platform suitable for the reverse classroom in massive open online course, improve the service function of the platform, enhance the interactive communication function, establish a personalized learning path, optimize the user interface and user experience of the platform, and ensure the convenience of students; Third, strengthen the security and maintenance of the platform, abide by relevant laws, regulations and privacy policies, ensure the safety of students' study data and personal information, regularly maintain and update the platform, fix loopholes and improve the stability of the platform.

3.3 Strengthen the supervision and evaluation of learning

To optimize the integration of the reverse classroom in massive open online course into the teaching of corporate crime investigation, it is necessary to strengthen the supervision and evaluation of learning. First, establish a comprehensive learning supervision system, set clear learning objectives and tasks, ensure that students have a clear learning direction, and regularly follow up and check the learning progress through the massive open online course platform to remind and urge them in time. Second, improve the learning evaluation system, combine the course characteristics and learning objectives, and adopt various evaluation methods, such as online testing, case analysis and group discussion. Set clear evaluation criteria and scoring rules for each evaluation method to ensure the fairness and accuracy of the evaluation results. Through the evaluation results, we can understand the learners' learning situation and progress space, and provide the basis for the follow-up teaching, so that teachers can adjust teaching strategies in time. Third, cultivate students' self-discipline and sense of responsibility, and experience the investigation of corporate crime cases by means of case sharing and role-playing, so as to enhance their sense of responsibility and mission, guide students to make reasonable study plans, establish reward mechanisms and enhance their learning motivation.

3.4 Improve teachers' teaching ability

From the perspective of improving teachers' teaching ability, the following strategies can be followed to promote the integration of massive open online course's inverted classroom into the teaching of corporate crime investigation: First, to enhance teachers' understanding and application ability of massive open online course and inverted classroom, teachers should deeply understand the teaching mode, characteristics and advantages of massive open online course and inverted classroom, clarify its application value in the teaching of corporate crime investigation, and master online course making, video editing and online interactive tools skillfully. Second, establish and improve the quality resource sharing mechanism, support the exchange and sharing of massive open online course resource platform among universities, and carry out typical experience exchange, on-site teaching observation, teaching training and other activities. Teachers actively participate in massive open online course production, reverse classroom design and other information-based teaching and training, and improve their ability in teaching content, teaching design and technology application. Third, build and improve the quality evaluation system and incentive mechanism of massive open online course's inverted classroom, and make a dynamic evaluation of the ideological and political construction of the curriculum regularly, including multiple evaluation subjects such as student evaluation, peer teacher evaluation, teaching supervision evaluation and industry expert evaluation, and feed back the evaluation results to teachers in time, and give corresponding incentive measures to teachers who have performed well under the inverted classroom model in massive open online course to stimulate teachers' teaching enthusiasm.

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