

From Design to Implementation: A Study on Quality Assurance of Cultural Study Courses in Vocational Colleges Based on the AOL System

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Abstract: With the development of vocational education, cultural study courses play an increasingly important role in cultivating students' overall competence and professional skills. However, many vocational colleges face challenges such as outdated teaching content, low student engagement, and insufficient learning outcomes in their cultural study courses. To address these issues, this study introduces the Assurance of Learning (AOL) system, aiming to enhance course quality through a systematic approach. Using Shanghai Zhongqiao University of Technology and Vocational Education as a case study, this research explores the specific pathways for designing and implementing cultural study courses based on the AOL system. During the course design phase, specific and measurable learning objectives are set, and corresponding teaching content and assessment tools are developed to enhance the controllability of the study process. In the implementation phase, various teaching strategies such as project-based learning, case analysis, and field visits are adopted to promote active student participation and effective learning. Additionally, continuous monitoring and feedback mechanisms are employed to continuously adjust and optimize the course content and teaching methods. This study not only provides specific pathways for course improvement in vocational colleges but also verifies the effectiveness of the AOL system in enhancing the quality of cultural study courses. The research findings offer valuable references for other vocational colleges in curriculum reform and quality improvement.

Keywords: AOL system; Cultural study courses; Vocational colleges

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1. Introduction: Research background and significance

Culture, as the most unique spiritual symbol of a nation and country, is an essential part of every citizen's duty and responsibility to learn, inherit, and develop. It is also a fundamental aspect of educational activities, playing a crucial role in fostering national consensus, enhancing cultural confidence, and boosting national cultural soft power ^[1]. As vocational education continues to evolve, cultural study courses have become increasingly important in cultivating students' overall competence and professional skills. These courses serve as an

innovative form of bridging school education with extracurricular education and provide an effective pathway for comprehensive practical education. Cultural study courses promote communication and collaboration among students, encourage cooperation and mutual assistance, enhance innovation and creativity, and improve cultural understanding, thereby embodying the internationally recognized 5C core competencies: cultural understanding and inheritance, critical thinking, innovation, communication, and collaboration ^[2].

Currently, some vocational colleges face challenges in their cultural study courses due to a lack of top-level design, insufficient support, and outdated teaching methodologies. This has led to issues such as unclear research objectives, overemphasis on form rather than substance, lack of structured processes, low student engagement, and inadequate learning outcomes. As a result, these courses fail to achieve their educational and developmental goals and lead to the waste of both teaching and social resources ^[3].

Existing research emphasizes addressing these issues from various perspectives, such as the societal, institutional, teacher, and student dimensions. However, there is a lack of in-depth studies focusing on the design and implementation of cultural study courses themselves. This study introduces the Assurance of Learning (AOL) system, aiming to enhance the quality of cultural study courses through a systematic approach. Based on the AOL framework, cultural study courses are designed as a continuous improvement process that includes setting learning objectives, implementing and measuring these objectives, evaluating learning outcomes, and maintaining a cycle of continuous improvement ^[4]. This approach can significantly enhance the teaching quality and learning effectiveness of cultural study courses.

2. Design and implementation of cultural study courses based on the AOL system

2.1. Course design

2.1.1. Setting multi-dimensional, measurable learning objectives

Based on the core principles of the AOL system and the characteristics of vocational education, the main goal dimensions for cultural study courses should be determined. These dimensions include, but are not limited to, knowledge acquisition, skill development, attitudes and values, social competence, and innovation. For each goal dimension, specific and clear learning outcomes should be established. These outcomes should be concrete, measurable, and verifiable through assessment tools ^[5].

Knowledge acquisition: For example, objectives can be set such as “students will be able to identify and analyze the characteristics and conservation significance of at least five cultural heritage sites,” or “students will be able to accurately describe and explain at least three important historical events from different cultural backgrounds and their impacts” ^[6].

Attitudes and values: For example, an objective could be “students will be able to express respect and understanding for diverse cultures in discussions and actively participate in intercultural exchange activities.”

Innovation: For example, an objective could be “students will propose at least two creative solutions to improve existing cultural products and conduct preliminary design and justification” ^[7].

Additionally, to ensure the measurability of learning outcomes, detailed assessment criteria should be developed for each outcome, with timely feedback and adjustments provided to both students and instructors ^[8]. This approach helps track progress and ensures that the course objectives are met.

2.1.2. Planning thematic and targeted teaching content

On one hand, the teaching content should be selected based on the learning objectives established earlier. The content for each goal dimension should be specific, targeted, and coherent. For example, to achieve the

objective of helping students understand certain historical cultures, representative historical events, figures, and cultural heritage sites can be chosen to help students grasp the origins and development of different cultures ^[9]. To enhance students' teamwork and public speaking skills, tasks that require collaboration can be designed, such as group projects and team competitions. Additionally, opportunities should be provided for students to showcase their learning outcomes in public settings, such as through presentations, reports, and performances, thereby boosting their confidence and communication abilities ^[10].

On the other hand, the selection of teaching content should also fully consider students' interests and career development directions. Teachers can gather information about students' interests through surveys and interviews. They can also tailor the cultural study content to the characteristics of vocational college students by aligning it with their professional backgrounds and future career plans, ensuring that the content is both engaging and relevant.

2.1.3. Arranging flexible and diverse teaching activities

Arranging flexible and diverse teaching activities is crucial to ensuring that students can actively participate, learn effectively, and achieve the course objectives. When designing these activities, several key principles should be followed:

Student-centered: Activities should encourage active participation and autonomous learning, promoting students' critical thinking and exploration.

Practice-oriented: Through hands-on and experiential learning, students should be able to apply their knowledge and skills in real-world contexts.

Diverse interaction: A variety of interactive formats are designed, such as group discussions, role-playing, and project collaborations, to enhance students' communication and teamwork skills.

Assessment and feedback: Each activity should include an assessment component, providing timely feedback to help students improve and advance.

When planning teaching activities, instructors can flexibly choose from a range of options based on the course goals and content. These may include:

- (1) Lectures and discussions (e.g., specialized lectures, group discussions)
- (2) Practical operations and experiences (e.g., handicraft making, field visits)
- (3) Project-based learning (e.g., creative design, community service)
- (4) Cross-cultural exchange (e.g., role-playing, cultural dialogues)
- (5) Reflection and summarization (e.g., reflection journals, group presentations)

By adhering to these principles and selecting appropriate activities, instructors can create a dynamic and engaging learning environment that supports the achievement of course objectives.

2.1.4. Establishing a robust assessment and feedback mechanism

Developing an assessment strategy is a critical component to ensure that course objectives are met and student learning outcomes are effectively measured. The assessment strategy should be comprehensive, multi-dimensional, and capable of providing immediate feedback to facilitate continuous improvement for both students and instructors ^[11]. When formulating the assessment strategy, the following key principles should be adhered to:

Multi-dimensional: Assessments should cover multiple aspects of learning, including knowledge, skills, attitudes, and practical abilities.

Measurable: Learning outcomes should be specific and quantifiable, allowing for clear evaluation.

Process and outcome-oriented: Both the learning process and final outcomes should be assessed to provide a balanced evaluation.

Diverse: A variety of assessment methods should be used to cater to different learning styles and strengths.

Timely feedback: Feedback should be provided promptly to help students improve and adjust their learning strategies.

When developing assessment content and criteria, it is important to consider the characteristics and professional backgrounds of vocational college students, ensuring that the assessment standards are appropriately challenging yet achievable. Additionally, instructors can employ a range of assessment methods:

Formative assessment: Conducted after each activity, using methods such as surveys, interviews, and observations to gauge student progress and gather feedback. This allows for timely adjustments to teaching strategies.

Summative assessment: Performed at the end of the course, using methods such as exams, reports, and project presentations to comprehensively evaluate student learning outcomes.

Peer assessment: Encouraging students to assess each other, fostering mutual learning and improvement.

Self-assessment: Guiding students to reflect on and evaluate their own learning, promoting self-directed learning and personal growth.

By implementing these assessment and feedback mechanisms, instructors can create a structured and supportive learning environment that helps students achieve their learning goals and continuously improve.

2.2. Course implementation: A case study of cultural study activities at Shanghai Zhongqiao University of Technology and Vocational Education

2.2.1. Preparations before course implementation

Before the official start of the course, a series of preparations need to be carried out to ensure the smooth implementation of the course^[12]. Specifically, these preparations include:

Teacher training: The cultural study courses at Shanghai Zhongqiao University of Technology and Vocational Education typically involve collective lesson planning activities for instructors. This ensures that teachers understand the requirements of the AOL system, the objectives and content of the cultural study courses, as well as the assessment criteria. This helps to unify teaching concepts and ensure the coherence and consistency of the course^[13].

Resource preparation: Prior to the start of the study activities, necessary materials such as textbooks, teaching aids, multimedia resources, etc., should be prepared to ensure the smooth operation of teaching activities. For example, arranging transportation for visits to museums or cultural sites, and preparing materials for handicraft making.

Student mobilization: Before the study activities begin, teachers at Shanghai Zhongqiao University of Technology and Vocational Education introduce the course objectives, content, and assessment methods to students through class meetings, lectures, and other forms. This aims to stimulate students' interest and enthusiasm for learning.

Environment setup: Based on the course content, classrooms or activity venues are arranged to create a rich cultural atmosphere. For example, posting pictures related to traditional culture and displaying handicrafts.

By thoroughly preparing in these areas, the university ensures that all aspects of the course are well-organized and ready for effective implementation.

2.2.2. Monitoring and feedback during implementation

During the course implementation, it is essential to establish effective monitoring and feedback mechanisms to promptly understand students' learning progress and any issues they encounter, and to provide necessary support and guidance. At Shanghai Zhongqiao University of Technology and Vocational Education, the following practices are employed in the cultural study courses:

Classroom observation: Teachers observe and record students' participation, interaction, and their performance in asking and answering questions. This helps in assessing the level of student engagement and identifying areas where additional support may be needed.

Immediate feedback: After each teaching activity, teachers provide immediate feedback, highlighting the strengths and areas for improvement for each group of students. They also offer constructive suggestions to help students enhance their learning outcomes.

Group discussions: Teachers encourage students to share their learning experiences and challenges through group discussions. This promotes communication and collaboration among students, fostering a supportive learning environment.

Peer assessment: After activities, teachers organize peer assessments, where students evaluate each other's work. This helps develop students' sense of cooperation and evaluation skills.

Reflection journals: Students are required to regularly write reflection journals, documenting their learning achievements and reflections. This practice encourages self-reflection and summation, helping students to internalize their learning experiences ^[14].

Through these monitoring and feedback mechanisms, teachers can ensure that students receive timely support and guidance, enhancing the overall effectiveness of the course.

2.2.3. Evaluation and reflection after implementation

At the end of the course, a comprehensive evaluation and reflection are conducted to summarize the experiences and lessons learned from the course implementation, providing a basis for future improvements. Taking the cultural study activities at Shanghai Zhongqiao University of Technology and Vocational Education as an example, after the semester-long course concludes, the university collects feedback from students through surveys, interviews, and other methods. This feedback covers various aspects such as course content, teaching methods, and activity arrangements, helping to gauge student satisfaction and gather their suggestions.

Based on this feedback, teachers summarize the entire course implementation process. They analyse the effectiveness of teaching activities, evaluate student learning outcomes, and identify any problems and challenges encountered. Additionally, teachers are required to compile and analyse data such as student exam scores, assignment completion, and project presentation results to assess the achievement of course objectives.

2.2.4. Exhibition and promotion of outcomes

At the end of the course, having students showcase their learning outcomes not only enhances their sense of achievement but also provides valuable references and examples for other schools and educators. For instance, after the completion of the cultural study courses at Shanghai Zhongqiao University of Technology and Vocational Education, the university selects outstanding works to host small cultural exhibitions. These exhibitions display students' handicrafts, creative design projects, and other achievements, inviting parents, teachers, and other students to visit.

The university also encourages students to further refine their work and participate in city-level and

national competitions. Through seminars, workshops, and presentations, teachers and students share their experiences and insights from the course implementation, fostering exchange and collaboration among education professionals.

Furthermore, the university contacts local media to report on the process and outcomes of the course, expanding its social impact and enhancing the school's reputation and recognition. This multifaceted approach to showcasing and promoting student achievements helps to highlight the quality and effectiveness of the educational programs, benefiting both the students and the institution ^[15].

3. Quality assurance and continuous improvement measures for cultural study courses based on the AOL system

3.1. Internal quality control measures

Internal quality control refers to the monitoring and improvement measures taken by the school during the course design, implementation, and evaluation processes to ensure the achievement of course objectives.

Course design review: Invite both internal and external experts to review course objectives, teaching content, and assessment criteria to ensure they meet the requirements of the AOL system.

Peer evaluation: Organize peer reviews among teachers, where they provide each other with feedback and improvement suggestions to enhance the quality of course design.

Teacher training and support: Organize professional training sessions for teachers to improve their teaching skills and assessment abilities; provide ongoing technical support and teaching resources.

Teaching observation: Arrange for teachers to observe excellent instructors, learning from their teaching methods and experiences to promote improvements in teaching quality.

Teaching resource management: Ensure that necessary materials, teaching aids, multimedia resources, etc., are available on time and regularly updated and maintained to meet teaching needs. Introduce modern educational technologies such as virtual reality and online learning platforms to enrich teaching methods and enhance teaching effectiveness.

Student feedback mechanism: Establish multiple channels for student feedback, such as surveys, suggestion boxes, and online platforms, to collect timely opinions and suggestions, and adjust teaching strategies accordingly. After each teaching activity, teachers should promptly provide students with feedback, highlighting their strengths and areas for improvement, and offering constructive suggestions.

Teaching supervision: Arrange for teaching supervisors to regularly visit classrooms to monitor teaching quality and student learning, providing improvement suggestions. Write teaching quality reports each semester to summarize issues and improvement measures, ensuring a steady enhancement of teaching quality.

By implementing these internal quality control measures, the school can effectively ensure that the cultural study courses meet high standards and continuously improve over time.

3.2. External quality audit

External quality audit refers to the evaluation of courses by external experts, industry representatives, or third-party assessment institutions to ensure the quality and credibility of the courses.

Expert review: Invite scholars and experts in the field of culture to review the course content and teaching activities, providing professional opinions and suggestions. Collaborate with relevant industry associations to obtain their recognition and certification of the course, enhancing its professionalism and authority.

Third-party assessment: Entrust independent third-party assessment institutions to conduct a

comprehensive evaluation of the course, covering aspects such as student learning outcomes, teacher teaching quality, and teaching resources, ensuring the objectivity and fairness of the assessment.

Social oversight: Invite parents and members of the public to participate in the evaluation and supervision of the course, gathering their opinions and suggestions to increase societal recognition and support for the course.

By implementing these external quality audit measures, the institution can ensure that the cultural study courses meet high standards and gain widespread trust and endorsement from both professionals and the public.

3.3. Continuous improvement measures

Continuous improvement refers to the ongoing optimization of course design and implementation strategies based on evaluation results and feedback, ensuring the continuous enhancement of course quality.

Adjusting teaching content: Based on student feedback and data analysis, adjust the teaching content by adding or removing certain modules to ensure its relevance and practicality. Additionally, integrate knowledge from other disciplines such as history, art, and technology to enrich the course content and enhance students' overall competence.

Optimizing teaching methods: Incorporate more interactive, experiential, and project-based learning methods that align with students' learning styles and interests, increasing their motivation and participation. Provide personalized guidance and support tailored to different students' learning abilities and needs, helping them better acquire knowledge and skills.

Improving assessment standards: Based on evaluation results, refine and improve assessment standards to ensure they are scientific and reasonable, accurately reflecting students' learning outcomes. Adopt a variety of assessment methods, such as exams, projects, reports, and presentations, to accommodate different learning styles and strengths.

Enhancing technical support: Introduce modern educational technologies like virtual reality and online learning platforms to diversify teaching methods and enhance teaching effectiveness. Form a technical support team to provide timely assistance to both teachers and students, ensuring the smooth operation of teaching activities.

Refining feedback mechanisms: Further improve the student feedback mechanism to ensure that students' opinions and suggestions are promptly communicated to teachers and administrators, promoting continuous course improvement. Conduct a course review at the end of each semester to summarize experiences and lessons learned, and propose specific improvement suggestions to ensure the continuous enhancement of course quality.

By implementing these continuous improvement measures, the institution can ensure that the cultural study courses remain up-to-date, effective, and responsive to the evolving needs of students and the broader educational landscape.

4. Conclusion and future prospects

This study, based on the AOL system, explores key measures for the design, implementation, evaluation, and continuous improvement of cultural study courses. In terms of course design, the study proposes setting multi-dimensional and measurable objectives, selecting appropriate teaching content, conducting diverse teaching activities, and establishing a robust assessment and feedback mechanism to support students' learning and

development. For course implementation, using the cultural study courses at Shanghai Zhongqiao University of Technology and Vocational Education as a case study, the research ensures the smooth progression of the course through four critical phases: preparatory work before implementation, monitoring and feedback during implementation, evaluation and reflection after implementation, and exhibition and promotion of outcomes. In ensuring quality and continuous enhancement, the study employs both internal and external quality control measures, along with ongoing optimization of course design and implementation strategies, to maintain the credibility of the courses and continuously improve their quality.

This research enriches the application theory of the AOL system in vocational education, offering new perspectives and methods for the design and implementation of cultural study courses. It provides valuable references for related course construction in other vocational institutions. Looking forward, further research could explore the integration of the AOL system with other educational theories, such as constructivism and situated learning theory, to develop more diverse teaching methods and assessment criteria. Additionally, the promotion of AOL-based cultural study courses to more vocational institutions can help explore their effectiveness across different majors and grade levels. Given the rapid development of artificial intelligence, investigating how modern technological tools can be integrated into cultural study courses to enhance teaching effectiveness and student learning experiences is also of significant importance. By advancing these areas, the study aims to contribute to the broader field of vocational education, promoting innovative and effective practices that benefit both educators and learners.

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