Construction of Undergraduate Teaching Quality Assurance System and Evaluation of Quality Improvement Effect under the Background of Review and Assessment

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Abstract. Teaching quality is the lifeline of the existence and development of colleges. The guarantee and improvement of teaching quality can effectively guarantee the teaching order and improve teachers’ classroom teaching ability. This paper systematically expounds the establishment of teaching quality standard, the operation of teaching quality assurance mode, the construction of teaching quality management team and mechanism, the promotion of teaching quality monitoring method, the establishment of teaching information database and teaching information from four aspects: the construction of undergraduate teaching quality assurance system, the monitoring of teaching quality, the publicity and utilization of teaching quality information, and the improvement of teaching quality. The analysis and feedback mechanism of information, the way and effect evaluation of teaching quality improvement provide effective reference for the operation of teaching quality assurance system and the improvement of teaching quality, and point out the direction for colleges to establish the position of teaching center and continuously improve teaching management.

Introduction

In 2011, the Ministry of Education issued opinions on teaching assessment of undergraduate course in ordinary colleges and universities. The assessment system emphasizes the awareness and responsibility of quality subjects in colleges and universities, as well as the basic value of self-evaluation and the construction of internal quality assurance system. The Ministry of Education has officially launched a new round of review and assessment since 2013. The focus of the review and assessment is the school body, student development and quality assurance, with special emphasis on the three educational concepts of "student center, results orientation and continuous improvement". Thus it can be seen that the importance of quality assurance and continuous improvement in school teaching management has been raised to an unprecedented height. Under the review and assessment, the construction standards of the quality assurance system of colleges and universities are diversified, which is conducive to the independent development of colleges and universities, the level of management and the characteristics of management.

Teaching Quality Assurance System

Quality Standard Construction

The school always attaches great importance to the construction of teaching quality standards, and has established a relatively complete set of quality standards centering on the orientation of running a school, the objective and process of talent training. According to the standard of school teaching quality, School of Printing and Packaging Engineering Standardizes the college teaching quality standard construction, strengthens the standard to carry out and implement, and the management rules and implementation measures concerning teaching style, teaching process and assessment, internship and practice, and the construction of Bi Sheng excellent class have been
established, also has formulated measures for methods for the evaluation of teachers' morality, the training system for young teachers, and the management measures for the tutorial system for undergraduates, to improve the moral character and professional quality of teachers[1]. In the teaching process and assessment link, The college further promotes the construction of the teaching quality project and promotes the implementation of various quality standards, so as to improve the quality of talent training by formulating the implementation measures for teaching quality monitoring, the management regulations for textbook selection, the implementation measures for supervising experts, the implementation rules for leading cadres and teaching administrators to attend lectures, and the standardized management measures for examinations.

Quality Assurance Mode and Architecture

For strengthening the management of classroom teaching and ensure the normal operation of the teaching link, School of Printing and Packaging Engineering formulate the detailed rules for the teaching quality monitoring and the classroom teaching management norms according to their own actual. The student evaluation of teaching, College supervisory inspection, the College leaders and teaching administrators attending class, controlling the teaching process, the mid-term teaching check, peer evaluation and professional teaching seminar and other way, makes the evaluation activity involves two aspects between teachers and students, across managers, peers, and the audience three dimensions, such as cover from the beginning to the end of the whole teaching process, and strictly in accordance with the stipulation of evaluation method of teaching quality of theory course to supervise the implementation. At the same time, in the submission of teaching documents, examination and summary, graduation design and other links, both adopt two levels of graded management of secondary colleges and majors to strengthen quality monitoring[2].

Organization and System Construction of Quality Assurance System

School of Printing and Packaging Engineering established the teaching quality monitoring group led by the dean and the party secretary, the teaching steering committee headed by the vice-dean of teaching, the teaching supervision group led by professor level 3 and the printing and packaging characteristic textbook compilation committee led by the dean, from the teaching process management and classroom teaching monitoring and textbook compilation and selection and other aspects of quality control. At the same time, the college has established the system management documents such as teaching quality monitoring, teaching style, teaching operation and examination management, internship and training management, laboratory construction and operation, and Bi Sheng excellent class construction and other management documents , which effectively guarantee the teaching quality and escort the cultivation of talent training[3].

Teaching Quality Management Team Construction

School of Printing and Packaging Engineering teaching quality management team mainly includes the leading group of the college (dean, secretary, deputy dean, deputy secretary), the professional leader, the dean, the teaching supervisor, the director of the general office, the teaching secretary, the professional secretary and so on, forming a management team of two levels of secondary colleges and majors. They have a strong sense of responsibility, rich work experience, in the teaching management to play a good example and dare to meet the hard work style. The college requires teaching administrators to establish a "service consciousness" and put the people-oriented concept throughout the management of each detail. At the same time, the school pays attention to the quality training of teaching management personnel. Every year, the school will arrange professional leaders, teaching secretaries and other management personnel to attend the corresponding theme training class 1-2 times to improve the management level.

The Construction and Implementation of the College's Internal Supervision Mechanism

School of Printing and Packaging Engineering has established a supervision expert group covering three majors, and formed the implementation method of the college supervision expert work. Supervising experts play an active role in supervision and guidance in supervising teachers'
daily teaching status, improving teaching management system, evaluating teaching quality, building teaching staff and reviewing and evaluating undergraduate teaching level and so forth. In 2018, supervision expert carried out several rounds of lectures, examination of teaching documents, examination papers and archived materials for graduation design, and gave feedback on the inspection opinions. Our college carried out teaching skill promotion seminar in time and trained teachers, which achieved good results[4].

Teaching Quality Monitoring

The Contents and Methods of Quality Monitoring in Colleges

School of Printing and Packaging Engineering monitors the whole process of teaching, multi-directional quality, including the adjustment and implementation of training program, teaching outline and semester teaching plan, so as to ensure the realization of talent training objectives; the teaching process of teachers, mainly through listening to lectures, tutoring, checking teaching process documents (such as teaching calendar, teaching plan and teaching courseware), participating in teaching research activities, supervising the implementation of teaching content and methods, and supervising the realization of teaching objectives; the teaching effect, experts review materials such as test papers, graduation designs, experiments and internship reports to see if students have achieved their stated learning goals.

The way of teaching quality monitoring is mainly based on the implementation method of teaching quality monitoring in School of Printing and Packaging Engineering, focusing on daily teaching inspection and teaching supervision. In the daily teaching inspection, School of Printing and Packaging Engineering is divided into two levels of college and professional supervision[5]. At the beginning, the middle and the end of the semester, teachers' daily teaching status is checked respectively, students' reflections on teaching are collected, the results of students' teaching evaluation are analyzed, and suggestions for improvement are put forward. In teaching supervision, college leaders and supervisor do not regularly held lectures and seminars, mastering the first-line teachers teaching status and classroom teaching level, understanding the role of teaching activities in promoting talent training in the new era, investigating the opinions of teachers and students on teaching links, teaching programs and teaching management, and then conducting targeted supervision and feedback.

The Implementation Effect of College Quality Monitoring

Through the whole process of teaching process and teaching effect, multi-directional quality monitoring and teaching supervision, teachers gradually set up the classroom quality awareness, and consciously participate in the teaching skills improvement or classroom ideological and political concept implantation, talent training quality is constantly enhanced. School of Printing and Packaging Engineering invites well-known experts from outside to make special reports and consult face to face, and also sends some professional teachers to participate in relevant training courses in China. The teaching concept and teaching method of full-time teachers have been improved, and the teaching level has been steadily improved, which effectively guarantees the realization of the effect of teaching quality monitoring in the college[6].

Professional Certification and Related Evaluation Effect

At present, the three majors of School of Printing and Packaging Engineering have not been professionally certified. The first-level discipline of materials science and engineering supported by polymer materials and engineering has passed the fourth round of discipline evaluation in China, which has promoted the condensation of printing and packaging characteristics of our college, and carried out pioneering and innovative research in the fields of printing electronics, biological printing, intelligent packaging and printing manufacturing.
Teaching Quality Information and Utilization

The Database Construction of the Basic Status of Teaching in School

The ministry of education every year for the work of higher education quality monitoring data acquisition, School of Printing and Packaging Engineering actively cooperate with the school and the superior management institutions, to collect college institute of basic information, basic conditions, the staff information, professional disciplines, talent training, student information, part of the teaching management and quality monitoring data, to do a good job of the annual report, and to build good campus teaching basic state database, as the core basic data of normal monitoring data and audit and evaluation of school teaching.[7]

Quality Information Statistics, Analysis and Feedback Mechanism

Collecting and Analyzing Teachers and Students’ Opinions and Suggestions, and Giving Feedback and Implementation. School of Printing and Packaging Engineering through various channels of democratic (such as seminars, trade union between teachers and students and teaching acting meeting, students learning organization issues, student evaluation of teaching, questionnaire survey, collection, etc.) are widely collected the teachers and students of secondary school teaching quality improvement and overall development important opinion and the suggestion, classify, submitted to the secondary college members, party and government association and leadership, collective research and resolution, form meeting minutes, as the important basis of revising the teaching management system and targeted as soon as possible to make information feedback and advice.

Teacher Teaching Quality Evaluation and Feedback. Through students' evaluation of teaching, peer evaluation of teaching and teachers' evaluation of daily teaching status, teachers' teaching grade evaluation is formed and the results are published to teachers. It not only lets teachers know their own teaching level, but also reminds teachers to pay special attention to students' evaluation of teaching scores and written comments to improve their work. College focus on the teachers who rank in the overall ranking and rank in the last 20% of students' teaching scores, conduct one-on-one talks, understand the situation and put forward suggestions for improvement to the teachers, and timely develop supervision, support and training plans.

Statistical Analysis and Feedback of Students’ Academic Performance. At the end of each semester, the teaching secretary reports the students' academic performance to the student counselor and head teacher to help them understand the students’ academic status and grasp the students' state of mind. At the beginning of the term the teaching secretary will count the number of failed courses of the previous term, and for more than a certain number, to give academic warning, three academic warning will be considered dropout processing. For students who are given academic warnings, the school will send the information back to the parents and jointly urge them to do a good job in academic improvement plan.

Quality Information Disclosure and Annual Quality Report

In accordance with the law of higher education, each teaching unit to summarize the experience and effect of teaching work in the past academic year, mining the highlight of the teaching reform work, detailed written the school year undergraduate teaching quality report, systematically reflect the ability teaching construction and reform, professional training ability, undergraduate teaching quality guarantee system, students' study effect, characteristic development and so on, for the public. At the same time, in order to give full play to the feedback effect of employment work on education and teaching, improve the talent training mode, improve the quality of talent training, and better serve the society and the industry, the university also published an annual report on the employment quality of graduates. The release of relevant reports will further promote the disclosure of quality information at both the school and college levels, urge schools to accept social supervision, and promote the improvement of teaching quality.
Teaching Quality Improvement

The Way and Method of Quality Improvement

Based on the industry mission and talent training objectives of the college, School of Printing and Packaging Engineering promotes the continuous improvement of teaching process and talent training quality on the basis of systematic evaluation of teaching staff, teaching content, teaching conditions, teaching methods and means, teaching effects and other aspects. In the process of teaching operation on campus, the college collects and analyzes the feedback from the supervision and inspection team, functional departments (especially the academic affairs office and experimental management office) and teachers and students of various majors on quality control. In the process of school-enterprise cooperation and student employment guidance, the college gradually establishes a feedback mechanism for graduates' career development information, and collects and collates a large amount of data for scientific analysis. The analyzed quality information is fed back to the course teaching, practical teaching and teaching process management, and the effect is evaluated, so as to realize the closed-loop management of quality monitoring and promote the continuous improvement of teaching quality[8].

Effect and Evaluation of Quality Improvement

Due to the diversification of the ways and methods of quality improvement, better improvement results have been obtained.

The Structure of the Teaching Staff Has been Improved and Its Strength Has been Significantly Enhanced. The proportion of doctoral students among full-time teachers increased to 55.7%, ranking first among the secondary engineering teaching units of our college. Nearly three years, teachers have access to the national natural science fund and the ministry of education in the new project engineering research and practice, has obtained the national printing engineering specialty in colleges and universities young teacher lecture contest prize, Beijing youth teaching masters, Beijing Great Wall scholar, Beijing youth top talent, School-level distinguished young teachers, School-level excellent class award, School-level Ya Chang education award and other honorary titles, five teachers visiting abroad for more than six months. The teaching and research ability of teachers has been enhanced, and the international vision has been expanded.

The Academic Level of Students Grew Rapidly, and the Quality of Personnel Training Improved Steadily. With the development of professional features and academic guidance, students' confidence in the major of printing and packaging has been gradually enhanced, and breakthroughs have been made in discipline competitions and employment. Over the past three years, the passing rate of the national college English test band 4 of School of Printing and Packaging Engineering students has been stable at more than 60%; students have made breakthroughs in the "world student star" packaging competition, "sun cup" Asian label competition, national printing industry professional skills competition, national packaging structure design competition, and national college digital art design competition; and the rate of students taking the postgraduate entrance examination and going abroad for further study has increased year by year, and the quality of personnel training has steadily improved.

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