

# How to Promote the Reform of Academic Evaluation in Colleges and Universities

Feng Wang<sup>1, a</sup>

<sup>1</sup>Zhoukou Normal University, Henan, Zhoukou, 466001, China.

<sup>a</sup>Email: wang2461@163.com

## Abstract

**Academic evaluation is an important part of teaching management in Colleges and universities. Promoting the reform of academic evaluation is the quality assurance of teaching management innovation. Through the analysis of the current situation of academic evaluation, this paper points out that the existing problems in the current evaluation are single in form, unscientific in evaluation, paying too much attention to scores while neglecting the process evaluation, etc. then, some problems put forward how to carry out innovative academic evaluation, especially emphasizing the reform of academic evaluation by means of information technology.**

## Keywords

**Academic evaluation, evaluation system, artificial intelligence.**

## 1. What Are the Problems in Current Academic Evaluation?

At present, there are many problems in Colleges and universities, such as single way of academic evaluation, unscientific evaluation method, re examination results and neglect of process. How to promote the reform of academic evaluation has become an urgent task. With the development of higher education in an all-round way, it is urgent to innovate the reform of academic level in Colleges and universities.

A. what are the shortcomings of the current academic evaluation? Through research and literature review, the main problems are as follows: first, the academic evaluation system is single, and most schools' academic evaluation is basically a test paper, that is, a test paper evaluates students' learning situation and teachers' teaching performance in a semester. This has resulted in only paying attention to the assessment of single dimension of knowledge, ignoring the measurement of ability, emotional attitude and values, leading to the one-way development of students, which is criticized as "high score and low ability" by the society;

B. the academic evaluation system is unscientific, which is mainly composed of the evaluation content items, evaluation methods and evaluation standards of various subjects. The evaluation system must be based on the curriculum standard, the reality of teaching and learning, and the school-based concept and characteristics. In view of different learning outcomes, the evaluation lacks skills and can not fully and truly reflect the students' individual strengths, which dampens the students' enthusiasm for learning;

C. Paying too much attention to the result assessment, neglecting the process assessment, only paying attention to the final examination results of students, neglecting the monitoring of students' learning process, resulting in students taking notes in class, taking notes after class, reciting notes in the exam, and completely forgetting the exam;

D. Failing to understand academic evaluation correctly, we simply understand classroom Q & A, ordinary test, assignment evaluation and experiment report as formative evaluation, and the operation is not standardized, so we can give points at will, and finally everyone passes the test, and everyone is happy. Only on the basis of finding out the crux, we need to carry out

targeted reform and innovation in all aspects from concept to operation, following the law of education.

## 2. How to Innovate Academic Evaluation

A attaches importance to academic evaluation and correctly understands the significance of academic evaluation

Examination is the examination and evaluation of students' learning. For the majority of college students, in the final review, we should draw up a scientific review plan, grasp the review law, take the initiative to sort out the key points, sort out the wrong problems, from point to line and then to surface, and finally achieve the comprehensive effect. As long as there is such a review efforts, with a most common heart to test, the results will not be strong unsatisfactory. To renew the concept of academic evaluation, we should change from "evaluation of learning" to "evaluation for learning", and give full play to the educational functions of academic evaluation, such as diagnosis, feedback, motivation and reinforcement. Don't regard evaluation as "going through the field", take it as an important part of teaching activities, assist teaching with examination, promote learning with examination, encourage students to study actively and assiduously. Let students understand that the role of examination is to promote learning and develop good study habits through examination.

B. Scientific reform and innovation of academic evaluation system. Innovative evaluation forms can be divided into three types: paper and pen evaluation, performance evaluation and process evaluation; middle and high grade students' subject evaluation consists of process evaluation, performance evaluation and paper and pen test; low grade students' subject evaluation consists of process evaluation and performance evaluation. Specifically combined with written test, oral test, practical operation, project solution, case analysis, non-standard answer test and other forms, to comprehensively assess students' mastery and application of knowledge. For example, "grade system" replaces "score system", which means that the school encourages students to weaken the pursuit of credit performance, put the focus back to the "ability, quality, knowledge" that is really beneficial to their own development, and lay the foundation for the transformation of "teaching oriented" into "learning oriented" education and teaching methods. In addition, we can also encourage the non-standard answer test, which can more effectively measure students' innovation ability and break the "high scores and low abilities" cycle in the past evaluation. Finally, we should strengthen the process assessment, design the evaluation link around the teaching objectives, increase the frequency of the process assessment, increase the proportion of the process assessment results in the total score of the course, and standardize the scoring standards. Relevant research has proved that the more tests are in normal times, the greater the probability of students' academic success. At the same time, it is necessary to strengthen the promotion and application of formative assessment, clarify the concept, standardize the operation, improve the monitoring, evaluation and feedback mechanism of students' learning process, and promote the iterative optimization of methods and successful experience in time.

C. The teacher is the executor of the examination, and must arouse the enthusiasm of the teacher. Through the discussion of many people in the teaching and Research Office, teachers can work out good questions, order good papers, and ensure the quality of the examination. We should let teachers realize that the purpose of examination is to assist teaching and really inspire teachers to take academic evaluation seriously. Academic evaluation is a very important part of education and teaching. It can diagnose teaching, realize fact judgment and value judgment, and improve teachers' teaching. College teachers should change the focus of teaching from knowledge transfer to students' learning effect, understand the relevant knowledge and methods of academic evaluation, and make good use of this "good helper" to promote teaching

D. use modern information means to comprehensively innovate academic evaluation

In view of the increasing trend of online courses, we should vigorously promote the informatization and paperless of the examination, the construction of each course question bank and the construction of online examination platform. With the help of artificial intelligence and data mining technology, we actively carry out the construction of smart classroom, and use the platform to comprehensively collect and gather classroom teaching behavior data, process data, result data, etc., and use data mining, intelligent analysis and other technologies for intelligent processing. Actively through the usual assessment, attendance, student class data for learning association analysis, evaluation. Actively carry out real-time assessment in class. Through the integration of real-time assessment into the smart classroom, in class, through the multi-directional interaction between students and teachers, resources, platforms, etc., to assess students' learning, positive learning attitude, learning effect, etc., and remind them in time. Improve the intelligent indicator system, add more assessment units and indicators. According to the factor analysis method, we can calculate the interaction index of interactive students, the learning attitude of students to teachers, and the learning effect of intelligent platform, so as to improve the teaching quality. Carry out the application of learning behavior analysis. Learning behavior data is the most important data reflecting the process of intelligent classroom teaching. By combing the possible factors from the aspects of students' subjective behavior, objective behavior, teaching strategy and learning environment, using the methods of correlation analysis, significance test and factor analysis in statistics, this paper explores the main indicators affecting academic performance. On this basis, by using association rule mining technology and visual display method to study the learning behavior sequence of different groups of students, further find the learning behavior differences of students, and provide an important means to explore the influencing factors of students' learning process. Online examination does not need to emphasize the form of closing or opening the paper too much. It should pay attention to the ability of students to master and use knowledge points, and pay attention to guide and develop students' active thinking ability and knowledge point extension ability when preparing the test questions.

### 3. Summary

This paper first analyzes the existing problems in the current academic evaluation, such as the single form of evaluation, unscientific evaluation, too much attention to scores in the evaluation, and ignoring the process evaluation, etc., and then puts forward how to carry out innovative academic evaluation, especially emphasizing the reform of academic evaluation by means of information technology.

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