

Analysis on Self- Evaluation System of the First-class Academic Discipline under the "Double Class" Background

—Taking Jinan University for Example

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Abstract: In face of the problems in the subject self-evaluation of universities, it is very important to establish a set of scientific, systematic and reasonable evaluation index system. The paper makes a useful exploration on the academic self-evaluation from the reality, in the faculty, personnel training, scientific research, social reputation index system construction of self-discipline evaluations. "Social reputation" is a subjective index, it is difficult to define, so only the objective index is analyzed. By using the method of bibliometric evaluation, this paper, with 2013-2015 three-year period authority (SCIE, EI, SSCI database, A@HCI, CPCI-S, CPCI-SSH, CSSCI) of the school paper included as the research object, makes a comprehensive statistical analysis of university academic level. The research results of this paper provide an important reference for the development of discipline planning, the dynamic adjustment of universities, and the development of scientific research.

1. INTRODUCTION

The level and status of disciplines are the important indexes in universities (Cong Rao, 2013). Discipline construction is the foundation of school operation and the key link of a university's development (Hongli Sun, 2015). Taking Jinan University as an example, this paper introduces the practice of subject self evaluation. The level of discipline construction can reflect the level of running school, the academic level and school characteristics.

Self discipline evaluation is the basis of government evaluation and social evaluation, the degree conferring unit for scientific and rational planning the main means of discipline construction, is a key part of self-management, self-restraint and self-development mechanism.

Subject self-evaluation should follow the following principles: first, the objective principle; two is the comprehensive principle; three is the guiding principle; four is the operational principle; five is the comparability principle. Based on clear objectives and certain standards, scientific method is used to evaluate and quantitative function, quality and attribute, you will be judged valuably (Tao Xu, 2013). To screen index reasonably and correctly is the basis of insuring the evaluation results accurate. (Xue Wang, 2014).

2. SUBJECT SELF EVALUATION INDEX DESIGN

Yao's paper puts forward the comprehensive utilization of AHP and TOPSIS to evaluate the conditions of e-commerce discipline construction and personnel training (Yao Liu, 2017). According to the characteristics of the AHP method, an evaluation model for key discipline based on fuzzy AHP is provided (Xilong Qu, 2013). With the aid of expert evaluating method, based on the systematic research and expert interview, the paper constructs three levels of integrated evaluation index system on the competitiveness of high colleges (Honglan Li, 2013).

In the face of "double first class" background, the establishment of a scientific, systematic and reasonable self-evaluation index system is particularly important for the problems existing in the self-evaluation of the first-class academic subjects in universities. The subject from the reality, using the balanced scorecard model, from the faculty, personnel training, scientific research, social reputation evaluation index system construction of self discipline in 4 dimensions, is more scientific and reasonable to carry out the self evaluation and made useful exploration. "Reputation" belongs to the subjective index, it is difficult to define, this article carries on the analysis to the objective index.

This paper summarizes and studies the influential indicators at home and abroad, and designs the subject self-evaluation index system of Jinan University, which can be used as reference for the subject service of departments and libraries. Self evaluation index system design is divided into teachers, personnel training, scientific research of 3 level indicators, each first level index according to the actual situation divided into two indicators, and then divided into several three indicators. Specific indicators are shown in table 1.

Table1. high level talents refer to academicians, people plan, Changjiang Scholars, the national outstanding youth, Youth Ministry of education, 973 chief teacher award, cross century talents and new century talents, talents project national candidates, some experts of international popularity. All the research projects refer to the project that the teacher is the host and the Jinan University is the first unit in a certain year. The total cost of the project is calculated in ten thousand yuan. The journal zoning is the Chinese Academy of Sciences Journal JCR partition data online platform query data for parameter. Papers published in 1 and 2 are classified as A1 grade journals in the school journals, which are usually regarded as the landmark results of the discipline. The school papers published by partition query the data partition.

Table 1: Jinan University academic self evaluation index system

First level index	Two level index	Three level index
Faculty strength	The number and structure	
	The number and structure of Master	
	High level talent situation	
	Proportion of Teachers	
personnel training	Doctoral enrollment	
	Master enrollment	
	The number of doctorates awarded	
	The number of masters conferred	
	The number of Ub Province	
	The number of provincial	
scientific research	National project	Total number of items
		important and key items
		Total project funds
	Provincial and ministerial level project	Total number of items
		Total project funds
	Research Awards	national level
		provincial and ministerial level
	Academic paper	The high level of the Ph.D.
		Other papers.
	Doctoral academic monographs	
Authorized patent		

3. APPLICATION OF SUBJECT SELF EVALUATION INDEX SYSTEM

In order to promote the construction of the doctoral degree authorized point and the construction of high-level universities, and provide reference for the dynamic adjustment of academic degrees. The application of the self discipline evaluation index system analysis of the 15 first level discipline doctorate authorization and 4 doctoral degree in two disciplines authorized, the main contents of it from 2013 to 2015 since, in the research on the cultivation of talents and science teachers, three aspects of data analysis and comparison system. 19 doctoral Name: Applied Economics, management science and engineering, business management, statistics, journalism, literature, history, language China Chinese world history, biology, ecology, medicine, integrative medicine, pharmacy, biomedical engineering, computer science and technology, political economics and international relations, pat-hology and pathophysiology, engineering mechanics. The original data is provided by relevant functional departments, and the data of academic papers are retrieved, analyzed and analyzed by the library.

3.1 Faculty strength

To December 2015, there are 1960 full-time teachers in the school, by 2015 the selection of supervisors and there are currently 1403 graduate tutors, including 573 doctoral tutors, 40.84%, master's tutor 830 people, accounting for 59.16%; three degree doctoral tutor is the largest clinical medicine, biology, applied economics. The minimum number of the political economics, statistics and world history, especially the history of the world only 1 doctoral tutor.

At present, there are 73 high-level talents in the university, accounting for 5.2% of the total number of tutors, mainly in biology, Chinese pharmacy and biomedical engineering, showing high level of training and introduction of high-level talents. High level personnel only 1 people, but the ratio is less than 1% degrees in business administration is (0.98%), Chinese language and Literature (0.93%), clinical medicine (0.2%), pathology and pathophysiology (no high-level personnel), reflect the discipline of leading talent shortage.

3.2 Personnel training

The most important responsibility of doctoral degree is to train excellent talents. The quality of degree, master's degree, degree and quality of dissertation can reflect the ability of academic degree to fulfill this duty well. This part of post graduate training, especially the analysis of doctoral education.

3.2.1 The degree conferred by Doctoral Candidates

Table 2:Ph.D. Jinan University academic degree authorization grant statistics

Title of doctoral authorization point of one or two disciplines	2013	2014	2015
Applied Economics	40	42	37
Chinese language and Literature	24	27	31
Journalism and communication	7	7	8
Chinese history	14	11	5
World History	0	0	1
Biology	26	20	23
ecology	0	0	1
Statistics	0	0	0
Computer science and technology	0	0	0
biomedical engineering	33	26	13
clinical medicine	10	7	12
Integrated traditional Chinese and Western Medicine	6	4	4
Chinese Materia Medica	0	0	9

Management Science and Engineering	4	7	4
Business Administration	22	33	18
political economics	0	0	3
international relation	10	12	14
engineering mechanics	5	3	5
Pathology and pathophysiology	8	13	5

(1) Doctoral degree awarded more than 30 degree: Applied Economics (119), China language and Literature (82), Business Administration (73), Biomedical Engineering (72), biology (69), international relations (36), China history (30).

(2) awarded a doctorate degree less 4 points, of which nearly 3 years of world history, ecology the 1 people have been awarded a doctoral degree, because of computer science and technology, statistics are set up in 2011, it was 0 degree. See table 2. for details.

3.2.2 Quality of Dissertations

(1) Excellent Dissertations

2013-2015 a total of 17 papers awarded "Guangdong provincial excellent master's degree thesis, of which 5 outstanding doctoral dissertation, outstanding master paper 12, the specific distribution: Guangdong Province outstanding doctoral dissertation: Biomedical Engineering 2, applied economics, China history and business administration 1. Guangdong excellent master thesis: Applied Economics 3, Chinese language and literature, Chinese history, journalism and communication and political economics each 2, biology 1.

(2) Problem papers

In 2013, there were 4 papers on academic dissertations, 1 of which were not in the 19 academic degrees, and the other 3 belonged to management science and engineering, business administration, journalism and communication.

3.3 Scientific research

3.3.1 Humanities and Social Sciences doctoral tutor academic papers and monographs

During the period of 2013-2015 years and three years, 10 humanities and Social Science Degree doctoral supervisors, 779 papers of B class and above were published, among which 257 were class A papers, accounting for 33%.

The total amount of papers, papers published a monograph and divided by 3:4:3 three interval arrangement, the degree of ordering as follows: sorting papers published in total: the first interval: Applied Economics (269), Chinese language and literature (124), Journalism (92). The second section: business management (91), Chinese history (89), international relations (38) and Statistics (29). The interval (24): political economics, management science and Engineering (21), world history (2). The sort of papers issued by category A: the first section: Applied Economics (90), Business Administration (44), journalism and communication (33). Second intervals: Chinese language and Literature (29), statistics (19), management science and Engineering (17), and Chinese history (11). The third section: Political Economics (10), international relations (2), world history (2). In publishing academic monographs, as of July 2014, 10 doctoral programs in Humanities and social sciences have published 55 academic monographs: the first section: Applied Economics, Chinese language and literature, and Chinese history. The second section: Journalism, international relations, statistics, business administration. The third section: management science and engineering, political economics, world history.

From the papers, a total amount of papers and monographs published volume, applied economics, journalism, literature, language Chinese MBA points compared to output of scientific research ability, scientific research achievements. Compared with world history, management science and engineering, political economics, the output capacity of scientific research is weak, and the achievements of scientific research are less.

3.3.2 Research projects of Humanities and Social Sciences

During the period of 2013-2015 years, 10 humanities and Social Sciences doctoral students won 95 national projects, /3349 million yuan, provincial and ministerial level projects 143 /1160 million yuan. From the total project, Applied Economics (63), Chinese language and Literature (51), Business Administration (39) to get the project capability; Statistics (8), political economics (5), world history (4) to get the project ability is weak. From the major and key projects, Chinese language and Literature (5), international relations (4), Journalism (3) are the top three; management science and engineering, political economics does not obtain any major and key projects, it is necessary to enhance the research efforts.

3.3.3 Doctoral Dissertation of doctoral students in Natural Science

During the 2013-2015 years, a total of 1682 doctoral degree programs were published in 9 natural sciences, among which 134 papers were published in the A1 region, accounting for 8%. The total amount of papers and articles are arranged by a 3:4:3 is divided into three sections, each degree sorting as follows: total issued order: first interval: in medicine (455), biological (453) and Biomedical Engineering (270). The second section: clinical medicine(228), pathology and pathophysiology (103), ecology (97). The third section: Engineering Mechanics (34), combination of traditional Chinese and Western Medicine (25), computer science and Technology (17). Ranking of A1 high level papers: the first section: Biology (67), Biomedical Engineering (29), Chinese medicine (21). Second section: Ecology (10), pathology and pathophysiology (4), combination of traditional Chinese and Western Medicine (2). The third section: clinical medicine (1), mechanical engineering(0), computer science and Technology (0). A document from the total area A1, high level papers published in volume, biology, pharmacy and Biomedical Engineering in a leading position; clinical medicine only has 1 A1 high level papers, mechanical engineering, computer science and technology three annual A1 area high level papers, it is necessary to pay attention to.

3.3.4 Natural science research projects

During the period of 2013-2015 years, 9 doctoral programs in natural science obtained 185 items of national level/16144 yuan, 326 items of provincial and ministerial level /18571 yuan.

From the point of view of the total project, biology (141), clinical medicine (122), Chinese medicine (74) are the top three; some degree program acquisition ability is weak, such as combination of traditional Chinese and Western Medicine (16), mechanical engineering (9).

3.3.5 Awards for scientific research and invention patents

2013-2015 years, the school has won 1 prizes at national level (Biomedical Engineering Li Wei won the two national science and Technology Progress Award), 77 provincial and ministerial level awards, which won more than 10 awards are the degree of Humanities and social sciences degree, are applied economics (16), Chinese language literature (16) and the dissemination of the news (11).

During the period of 2013-2015 years, the school has authorized 221 invention patents, of which 60 are biomedical engineering, 59 biology, 38 traditional Chinese medicine, ranking the top three, showing a strong scientific research transformation ability. Management science and engineering belong to the category of social science also won 3 patents.

4. CONCLUSIONS AND SUGGESTIONS

The subject makes the self evaluation of the school discipline construction situation is more clear, to find out the real situation". Especially in recent years, the development of various disciplines is faster, and there is a great development in the introduction of talents and the acquisition of scientific research funds. By self evaluation, not only the school leaders of the school discipline status have a more comprehensive understanding, but also the dean of the college also understand other disciplines, learn from each other, to jointly promote the development of the school subjects.

Is necessary to establish and perfect the effective mechanism of self evaluation, self evaluation system to gradually achieve. As the largest resource distribution center, the library has experienced the three big impact of the library, and it has also been impacted by the big data era. Therefore, the ability to control data has brought new challenges to every library, how to excavate and utilize the massive data, subject to provide innovative services more professional and personalized for users will become one of the development direction of future library. It is the key to introduce high-level talents, strengthen the construction of teaching staff, grasp the discipline construction of colleges and universities, and cultivate high-level academic leaders. Subject self-evaluation is an important means to improve the efficiency of university science funds, and is the basis for the development of discipline planning and development strategy in universities. The premise and foundation of the related data of the accumulation of information, the library has rich information resources.

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