The Development Ideas of Higher Education’s Discipline Structure of Henan Province Under the Background of Industrial Upgrading

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Keywords: Industrial Upgrading, Higher Education, The Categories of Structure.

Abstract. This paper, at first, makes research on Harmonious relationship of restrict and promote each other between industry structure and higher education structure. Then, we carried on the comprehensive analysis on industrial structure in Henan province and the process of discipline structure of the higher education development present situation .Finally, according to the higher education structure and industrial structure, division of kind of professional setting and market demand can not be timely docking and professional penetration force is weak wait for a problem, we put forward the effective solutions, and put forward to promote the upgrading of the industrial structure of Henan higher education structure development idea.

Introduction

In view of the “The 12th Five-Year Plan” in the national macro-control policies, industrial transfer and upgrading of industrial structure as a constraint to China’s economic development factors, and how to make higher education in the socialist modernization of the role of talent in our country’s match the structure and personnel requirements to become one of the current problems to be solved.

As an important part of the China’s economic structure, industrial structure and the Higher Education’s structure are mutual restraint and mutual promotion. In a certain sense, education is mainly affected by the restructuring of the industrial structure of the constraints, the structure of the categories of higher education with industrial development must adapt to changes in the structure. Further, the rational categories of higher education structure is effective for the various national economic sectors to train and quality standards, various types of labor and considerable expertise in the necessary guarantees, to promote a necessary precondition for economic development. Therefore, the industrial structure determines the categories of higher education in our province optimal adjustment of the structure. At the same time, higher education categories of structural optimization, but also to promote the optimization and upgrading of industrial structure to provide good environmental conditions. The improvement of knowledge of the industry in product content and technical content, presented by the inter-industry labor-intensive to knowledge transfer is a technology-intensive industrial structure optimization and upgrading of two notable features. The adjustment of industrial structure within the industry will inevitably lead to capital, raw materials, labor, between the structural changes, the operator will also change the investment pattern, gradually reduce the physical and financial capital injection, try to increase investment in human capital, thereby enhancing the human resource’s role in economic growth. To some extent in terms of workers’ education, technology and innovation will be considered in the process of industrial restructuring, one of the necessary conditions, and thus the restructuring of higher education categories of new demands.

Henan Province Higher Education Structure Current Situation and Problems

The structure of unreasonable professional setting

In the process of higher education, most colleges and universities have neglected their own mission, which will give priority to their own development, while the education is to meet the social
development of this historical tradition on the second mission. Therefore, the resulting set of structural imbalance of professional colleges, and industrial structure adjustment needs do not match. The Department for Education of Henan Province set for the class structure, mainly in the following aspects:

Firstly, billing division of the institutions to the development of diversified institutions. At present, Henan Province has 83 colleges and universities. In the “enrollment” of the trend to strive for new students, many institutions, professional set convergence, perfection, heat recovery, reconstruction. Regardless of how the original foundation, since 1993, almost all institutions are set in English, computer science and technology, law, business administration, accounting and other professional; to 2006, an increase of similar professional and management major, such as marketing, administration, information management and information systems, public utilities management, tourism management. Colleges and universities in this series of initiatives, making a lot of “intellectuals” as vagrants or those who do not match the job, a serious impact on human resources of their potential, restricts the adjustment of industrial structure of Henan.

Secondly, partial set of professional management, unable to meet the industrial structure optimization and upgrading. Investigation by the province’s colleges and universities found that the province graduate, undergraduate liberal arts of the professional basic only to highlight its own characteristics, Henan University, Zhengzhou Institute of Light Industry, Zhengzhou Teachers College, and a few other schools. The graduate level, undergraduate level science ones, in various categories of internal, professional structure of a serious imbalance in the internal arts, the number of students are more basic sciences, applied liberal arts students a few less than normal, the internal light engineering, civil engineering students less than normal. The imbalance makes this specialty industrial development of China’s third and fourth serious constraints.

**Specialty and market demand is not timely docking**

Adjust the industrial structure, promoting economic restructuring is “The 12th Five-Year Plan” a major focus, with the profound changes in economic structure, industrial structure has undergone fundamental changes, which significantly decreased the primary industry, secondary industry increased significantly, the first accelerate the development of tertiary industries. Meanwhile, with the tertiary industry in the industrial composition of the gradually increasing proportion will be required in different sectors within the industry continue to develop reforms. In 2009, the added value of 329.3 billion Yuan with modern service, accounting for 57.8% of value added services, more than traditional services. Among them, four of our provinces support the industry together and competing. In 2009, the province’s logistics industry 68.57 billion Yuan, up 7.6% over the previous year, the province accounted for 12.2% of total value added services. The province’s reception overseas tourists and tourism revenues by 2006, 131.39 million passengers and 103.9 billion Yuan in 2009 to 233.25 million people and 1985 billion Yuan, up by 15.4% and 17.6%. Province’s financial value added of 21.97 billion Yuan from 2006 to 2009, 47.44 billion Yuan, an average annual increase of 22.9% from the total services and total GDP of 5.9% and 1.8% to 8.4%, respectively, of 2.5%.

As one of the tertiary industry, education sector, it should be in accordance with the development requirements of the industrial structure, make the appropriate development plan. Personnel on the province structure, job requirements and personnel characteristics there is a serious mismatch problems, supply and demand is very prominent, and faced with some specialized in short supply, and oversupply of some professional difficulties. According to the relevant department statistics, economic development process, the community of computer, electronic, communications, construction, automation, logistics, mechanical and Teacher Education graduates need more, while the philosophy, history, education, sociology Graduates of professional disciplines, such as low demand. Meanwhile, professional talent demand in the same discipline is imbalanced. In the final analysis, the main reason for this imbalance is higher categories of structure and economic structure of society as a whole, especially the industrial structure is incompatible.
Professional penetration weak

Modern higher education through advances in science and technology permeate all aspects to achieve their economic function. The so-called penetration bear in knowledge and technology to promote productivity, increase and update the content of the acceleration rate, and the popularization and application of scientific and technological achievements, the potential of science and technology into practical productive forces, eventually leading to modern society, education, economy, science and technology is increasingly integrated and to become integrated. Enterprise and university personnel supply and demand forecast early warning mechanism has not yet formed. As the demand for corporate positions with colleges and universities lack an effective dialogue between the professional setting and docking, enterprises employing between university education and the lack of effective communication and contact, to a certain extent, resulting in a phenomenon of “corporate schools do not require personnel training, school-trained people companies do not need”. The intensification of this phenomenon a series of social problems, resulting in increased unemployment, sluggish business efficiency, staffing and so on. Severely restrict the economic development of Henan Province. Meanwhile, Henan province as a big province in population, the new era of economic restructuring in the face of the need to strengthen higher education in more categories of professional permeability, improve and promote the personnel structure of the upgrade, making the job market demand and supply mechanism of talent more improve and promote the optimization and upgrading the industrial structure of Henan and economic development.

The Development Ideas of Higher Education’s Discipline Structure of Henan

Dislocation development, overcome the discipline structure of the higher education homogenization

Dislocation development, in a professional setting to avoid duplication, not only helps to guide higher education, unique, but also it helps build their core competencies. “Plan” clearly “the establishment of university classification system of category management, reasonable position to guide colleges and universities to overcome the tendency of homogeneity, not only to continue to accelerate the construction of first-class universities and world-class disciplines, to promote innovation in key disciplines”. According to Henan reality, dislocation development to do the following:

Firstly, institutions of higher learning, according to the actual situation in Henan Province, Henan closely integrated economic and social development needs, professional scientific and reasonable to adjust the settings. Higher Education in Henan Province, the local socio-economic development and provide personnel training to play the advantages of scientific and technological achievements and potential, it must be “scientific position, identify the goals, advantages and unique” for the development of ideas. For example, some of our schools by central and local industry to build, and places industry-university cooperation, and local economic, social and cultural development of the combination of regional economic development to make social progress provides the most direct and most effective talent and technology support, as Building regional innovation systems and local socio-economic development of the important support. Practice shows that the development of higher education in Henan Province to promote regional economic development has an irreplaceable role in the area of knowledge creation, accumulation and dissemination of an important base for scientific and technological innovation, technology transfer and conversion of an important carrier and platform, is spread the spirit of science, scientific ethics and the construction of spiritual civilization and culture, the main front, shoulder to Henan Province to develop high quality innovative talents, promote technological innovation, promote economic and social health, coordinated and sustainable development of the special mission.

Secondly, education administrative departments should actively perform the functions of information disclosure to reduce the universities and the economic development of Henan degree of information asymmetry. This requires timely collection of information and personnel needs new jobs, new jobs, new technologies, new processes information, published regularly, so that the
categories of the structure of higher education closer to the actual social and economic development in our province needs. Through in a professional setting, personnel training and research directions directly with local socio-economic development of the specific features of combined service to higher education for the local development of targeted and effective, strengthening higher education and local government, local businesses and social organizations of the between the links. From space, expand the level of the social function of higher education, to promote their social and economic development of more broad-based.

Thirdly, strengthening curriculum development, improve the professional planning content. Program is to achieve an important means of professional development goals, so we have to do: staggered training means to implement the curriculum and to “must, enough” principle; should pay attention to quality professional, quality course construction, the formation of demonstration, radiation and brand, in order to stimulate and enhance general professional courses.

**Industrial structure and market oriented, construct the higher education discipline structure**

As China’s “The 12th Five-Year Plan” continues to implement the strategic plan, Henan Province in undertaking industrial transfer and promote the process of optimizing and upgrading industrial clusters will face a large industrial structure adjustment and industrial restructuring and changes in the labor force will cause reallocation of resources, thereby bringing about the restructuring of higher education and categories of changes. Therefore, the categories of the restructuring of higher education must insist that the market-oriented, modeled on the industrial structure, building a harmonious, rational category of higher education structure, allowing personnel in line with market needs, achieve educational service economy, education, the end result of economic regulation.

Under the current education system, should be about several aspects of reform: First, the university should conduct an environmental scan, timely grasp of the talent market dynamics, constructing their own competitive advantages of a large core disciplines, students avoid the crisis, Second, major disciplines in the building core construction based on the market early warning mechanism to feedback, timely adjustment of two disciplines, to ensure and to match market demand, to promote the restructuring of human society.

**Building social needs of the dynamic early warning mechanism**

Today’s world is the era of knowledge economy, promotion of higher education and economic construction and social development are closely linked to “remedy”. Adjust the structure of higher education disciplines primarily to the emerging discipline and the national economy should be the construction of much-needed direction of tilt. However, market regulation itself is not enough, the government must be given proper guidance and the establishment of early warning mechanisms to meet the social demand for talent. According to three consecutive terms of the employment of college graduates found that college students due to professional structural unemployment problem caused by the individual professional serious oversupply situation is caused by the persistence of college students unemployed the main reason. The core of resolve this type of unemployment is control the supply of professional regulation, which requires the national, regional and university level to establish three professional early warning mechanism.

The construction of professional dynamic early warning mechanism on China is the highest unemployment rates in the professional and the amount of unemployment most professional small class enrollment and students professional regulation, may also be considered in admissions process allows high employment rate in Higher Vocational Colleges and two or three type colleges and universities at the same time entry admission, make obtain employment good higher vocational school can get better students, let the low employment rate of the individual college students atrophy. Labor authorities should be based on changes in the labor market and corresponding policies and make specialized research, make the talent demand in the long-term forecast, and for higher education early warning mechanism to provide necessary data support.
Conclusions

Higher education is an open system of self-regulating function, with strong ability of self-regulation and self-improvement. In the social environment and energy, material and information exchange process, it can through the internal system of self-regulation, implementation structure is updated and reorganized, and environment to maintain the new balance. Thus, in Henan Province to promote economic development and industrial restructuring process, build a sound and reasonable basis to undertake industry to meet market demand for talent and talent supply mechanism of balance, it will be: set a reasonable categories of higher education structure, constructing and talent market dynamics between the early warning mechanism, and appropriate government policy guidance, in-depth study of the current reform of higher education background, and accurate positioning of disciplines, and to meet people respond to social needs.

Acknowledgment

This research was financially supported by: 14BJY044; 2013BJJ034; [2015]-JKGHYB-0074.

References


