The Construction of Comprehensive Measurement Model for the Development Potential of Research Practice Education Base

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Abstract: With the rapid development of research and study travel, the demand for research and study practical education bases and the requirements for their quality are also expanding and improving. To fill the blank in the research of evaluation studies the development of education bases and avoid studies blind in the process of practice education base to create the phenomenon such as reporting, quality the good and bad are intermingled, many elements of regional development at home and abroad, this paper, and study the multi-index comprehensive measure, from the resource (R), marketing (M), security (S), environment (E) four dimensions selected 20 indicators, Combined with the AHP analytic hierarchy process to determine the weight, the fuzzy comprehensive evaluation method to quantitatively assign the value index, constructed the polygon method and weighted average sum method of comprehensive measurement of the development potential of research practice education base, and Lanxi as a case of empirical research on the comprehensive measurement of the development potential of research practice education base. Results show that the constructed studies practice education base and development potential of comprehensive measure evaluation model can better reflect the base of the studies traveling development potential, and is the base of the research study practice education base development provides a certain theoretical foundation and the basis, to studies the practice education base case area and even the whole country development has exemplary role and promote the creation of meaning.

Keywords: Research practice education base; Comprehensive measure; Polygon method; Weighted summation method; Jinhua lanxi

1. The introduction

As an important educational reform path to comprehensively improve quality-oriented education of primary and secondary school students and cultivate social responsibility and practical ability, study travel has been actively responded by all parts of the country and various fields since it was proposed in 2013. The number of people who take part in the research and study travel continues to increase every year, the demand for the research and study practical education base is gradually expanding, and the quality demand for the research and study practical education base is also constantly improving.

However, despite the hot development of research and study travel and the in-depth study by many experts and scholars, there is still a lack of theoretical research on research and study travel, especially the development and evaluation direction of research and study practical education base. Without scientific admittance threshold, the blind creation of research and practice education base is very serious. How to establish scientific research practice education base development evaluation index, in order to screen out suitable research practice education base in the early stage of construction, improve the efficiency of the base construction, and provide more accurate basis for the government support is the biggest problem to be solved in this paper. For regional development at home and abroad for reference, the multi-factor and multi-index comprehensive measure research, combining tourism resources, tourists to the three elements of tourism system, tourism and regional Mr PRED coordinated development theory, build from resource (R), in marketing (M), capacity (C), environment (E) four dimensions of studies the development of education bases potential comprehensive measure model, It provides scientific theoretical basis and admittance threshold for the reasonable establishment of research practice education base, reduces the subjectivity in the establishment process of research practice education base, and avoids the blindness in the establishment of research practice education base, and has a certain practical significance.

2. Theoretical model construction

2.1 Theoretical Basis

(1) Regional development-PRED coordinated development theory. Organic whole dynamic open complex system (Mr PRED coordination theory), consists of the system of population, resources, environment, mutual promotion and mutual coordinated development of the big four subsystems, formed by coordination-not harmonious coordination the changing process of dynamic reciprocating cycle, and the system have integrity, dynamic, regional, regulation of sex, long-term and multilayered.

(2) Scenic Spot Development—basic support of resource market. The development of scenic spots needs four aspects: resource potential, market potential, infrastructure, and support system. The resource potential includes resource scale and resource quality.

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Market potential includes tourism location and source market; Infrastructure including the tourism industry and sanitation; The support system includes government support and villagers' willingness, and the development potential of the scenic spot is mainly reflected in the above points.

(3) Educational Objectives-Bloom's Educational Objectives. From Bloom's refining of educational goals, his understanding of educational goals is mainly put forward in the fields of cognition, emotion, and motor skills.

3. Establishment of comprehensive measure index of development potential of research practice education base

Selecting scientific and reasonable dimensions and index factors to create the comprehensive measurement index of the development potential of the research practice education base is an important quantitative standard for comprehensively evaluating whether the base has the research development potential or not and a scientific basis for evaluating the development potential of the base\(^2\).

Based RMSE analysis model, draw lessons from other related evaluation index system, follow the scientific nature and operability index construction principles, finalized with resources, market, security, environment dimension, from two aspects of basic condition and development potential, build four indicators, and eight criteria layer and index factor of 20 studies index system of practice education base and development potential.

4. Estimation of the development potential of research and practice education bases

4.1 Comprehensive measurement index factor quantification of development potential of research and practice education base

In the comprehensive measurement index factors of the development potential of the research and learning practice education base constructed, some indexes can be determined quantitatively, but some indexes tend to be subjective and cannot be evaluated quantitatively. Combined with the fuzzy comprehensive evaluation method (10-point system), the paper carries out fuzzy scores on various indicators of the development potential evaluation of the research and learning practice education base constructed, and determines the evaluation and scoring standards, and quantifies the indicators\(^2\).

4.2 Determining the weight of index factors for comprehensive measurement of development potential of research and practice education bases

The determination of the weight of each index in the comprehensive measurement of the development potential of the research and practice education base is also extremely important for the scientificity and rationality of the construction of the index model.

The nine-level scale evaluation method proposed by Saaty et al. Correlates the numerical scale with the written narrative score. Experts and scholars compare and score the indexes on 1-9 scale to form the importance scoring matrix and finally determine the weight. Psychologically, it is shown that most people's ability to distinguish the differences between different things in the same attribute is 1-9. The scale of 1-9 can more accurately reflect the judgment ability of most people. The specific meanings of each numerical scale are as follows.

5. Evaluation on the development potential of Jinhua Lanxi Research Practice Education Base

Jinhua has a long history, flourishing culture and numerous celebrities. Known as "Little Zoulu" in history, Jinhua is known as "a land of history and culture, a place where celebrities are gathered, a city of flourishing literary style and a town of beautiful mountains and rivers". Lanxi has prospered in commerce since ancient times and is listed as one of the seven commercial ports in Zhejiang Province. It has magnificent architectural scale and unique artistic style, and meanwhile has rich research resources such as ancient villages, towns, and cities.

6. The conclusion

Based on the RMCE analysis model based on construction, this study constructed the evaluation index system of the development potential of the research practice education base, and took Jinhua Lanxi City as the case area to make a comprehensive evaluation of the development potential of the base, and determined the list of the cultivation of research practice education base. This paper aims to improve the rationality and scientificity of the establishment of the research practice education base, provide some theoretical basis for the development of the research practice education base, and avoid the blind and inefficient construction of the research practice education base.

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References: