

Research on the New Situation and Countermeasures of Postgraduate Entrance Examination for Independent College Students Based on Variance Analysis

Xialin Lu

Huihua College of Hebei Normal University He Bei ShiJiaZhuang,, 050000, China

Abstract: With the continuous development of today's society, undergraduate education can no longer meet the needs of contemporary young people, and more and more undergraduates choose to continue to strengthen their own further studies. In order to improve their overall core competitiveness in society, the postgraduate entrance examination has become the best choice for college students, and the army of postgraduate entrance examination has expanded year by year, which also gives students who are at a disadvantage in many undergraduate colleges a lot of pressure. This paper adopts the method of combining online questionnaire with practical interview, By referring to the basic data, this paper analyzes the behavior and attitude of college students in the postgraduate entrance examination, calculates and analyzes the data by using variance analysis .

Keywords: Research on variance analysis countermeasures of postgraduate entrance examination First; The current situation investigation

1. Purpose and background of investigation

1.1 Purpose of the study

The purpose of this experimental practice project is to explore the factors that affect the postgraduate entrance examination, so as to enhance the competitiveness of independent college students and candidates from other undergraduate colleges, and provide reference opinions for independent colleges and their students.

High-quality talents are urgently needed in the new era. The total number of graduate students enrolled in China continues to grow, The admission rate of graduate students is also an important index value to measure the running level of colleges and universities, Life is a long road. If the college entrance examination is a threshold, then the postgraduate entrance examination is a difficult beam. In this increasingly competitive society, the undergraduate degree has lost its former competitive advantage. Therefore, the pursuit of a higher level of knowledge has become a new popular trend in the present era.

According to the data obtained from the questionnaire survey, the hypothesis test was established, and the test level $\alpha=0.05$ was determined. Using spss software to do variance analysis, calculate the test statistic F value, check the critical value in F distribution table, compare F value with critical value, determine p value, or take fixed p value and analyze the data p value through spss to infer the conclusion finally.

1.2 Analysis of survey results

When determining the research variables of questionnaire survey, a large number of literatures and structural planning behavior theory are integrated, and other potential variables are determined on this basis. This research questionnaire consists of two parts: Personal Basic Situation Questionnaire and Influence Postgraduate Entrance Examination Behavior Choice Questionnaire.

Descriptive statistical analysis: Firstly, 84 valid sample data were input descriptive statistical analysis, so as to know the basic information such as gender, college category, grade, whether they have passed CET-4 and CET-6, whether they have applied for class postgraduate entrance examination, and whether they have cross-disciplinary postgraduate entrance examination. In all questionnaires,

male (n=26, 30.95%), female (n=58, 69.05%). Sophomores and juniors account for 42.86% and 40.48% of the total respectively. Among the categories of colleges and universities, students from independent colleges accounted for 59.52%, accounting for half of the total, followed by ordinary undergraduates with 28.57%, and 985 and 211 accounted for the least, only 11.9%. Grade 4 has not passed (n=32, 38.1%), Grade 4 has passed (n=40, 47.62%), Grade 6 has passed (n=12, 14.29%); 52.31% of students choose cross-disciplinary postgraduate entrance examination; 66.15% of students choose to learn master's degree; 49.23% of the students choose to study in classes.

	Difference	Sum of squares	Degree of freedom	Mean square	F	p-value
Undergraduate graduation does not have a competitive advantage, and postgraduate entrance examination is conducive to better employment	Inter-group	0.013	1	0.013	0.005	0.945
	Within the group	219.225	82	2.673		
	Total	219.238	83			

From the above table, it can be seen that using variance analysis, different gender samples do not have competitive advantages for undergraduate graduation, and all the postgraduate entrance examinations are conducive to better employment ($p > 0.05$), which means that all the different gender samples are consistent for postgraduate entrance examinations to better employment, but there is no difference.

Analysis of variance results (common format)

Analysis item	Items	Sample size	Average	Standard deviation	F	p
To fully understand the postgraduate entrance examination	Sophomore year	36	2.36	0.99	0.847	0.472
	Junior year	34	2.59	1.13		
	Senior year	7	2.14	0.90		
	Graduate from senior year	7	2.00	1.15		
	Total	84	2.40	1.05		

* $p < 0.05$ ** $p < 0.01$

As can be seen from the above table, Using ANOVA (one-way ANOVA) to go to the research department grade has fully understood the postgraduate entrance examination, It can be seen from the above table that whether different grade samples have fully understood the postgraduate entrance examination will not show significance ($p > 0.05$), which means that different grade samples have shown consistency and no difference in whether they have fully understood the postgraduate entrance examination.

It can be concluded that different grades of your samples will not show significant differences in whether you have fully understood the postgraduate entrance examination.

In order to prevent the monopoly of higher education and alleviate the class solidification, higher education gradually shifted to popularization. By expanding the enrollment of independent colleges, the proportion of high-quality talents is increased, which also provides a certain driving force for economic development. At the same time, however, talents in big cities are saturated, and the best is selected from the best, which leads to serious academic involution. The rapid upgrading of industrial structure leads to the continuous transformation and upgrading of talent structure. With the continuous promotion of industrial structure, a large number of innovative talent posts will gradually emerge in traditional industries. Graduate school is a realistic choice to get these positions.

2. National Policy and Economy

At the beginning of 2019, Premier said that the Chinese economy did encounter new downward pressure. With the emergence of new functions, new enterprises, new companies and their models, the single skill of traditional posts can no longer meet the current employment conditions, and the introduction and training of compound talents will become the trend for most companies to recruit talents. Nowadays, some slim development can be seen in some recruitment information, and the threshold of some common positions has been raised to graduate students. In view of the development of emerging markets and industries, our country clearly points out that the cultivation of high-quality professional and technical personnel requires colleges and universities to deepen the research of postgraduate enrollment and doctoral field.

3. Countermeasures to improve the rate of postgraduate entrance examination

3.1 School education

3.1.1 Strengthen the construction of study style

Excellent style of study is the prerequisite to stimulate the enthusiasm of graduate students. Although students' major differences, employment situation and many other factors will have a certain impact on graduate students, no matter what the major students study and the employment situation they face, for a major or first-year students, if they want to achieve greater success, they must establish a style of study. Under normal circumstances, we will see that students with good study habits have good grades, high passing rate of CET-4 and CET-6 and high enthusiasm for learning. Therefore, we should make full use of the influence among students, organize graduate students' teams, encourage each other and help each other.

3.2 State and social support

3.2.1 China's high-tech development

China's high-tech economic development attaches importance to the cultivation of high-quality talents: the development of high-tech industries needs a large number of high-quality talents, and postgraduate students should master the knowledge and skills related to high-tech industries. Highlight the cooperation of production, education and research. In order to better adapt to the development of high-tech industries, postgraduate students need close cooperation of production, education and research, and combine industrial reality and academic research to improve their quality. Secondly, we should pay attention to the cultivation of innovative ability. High-tech industries pay attention to innovation. Postgraduate students need to pay attention to the cultivation of innovative ability and learn innovative theories and methods. To develop an international vision, high-tech industries have the characteristics of internationalization, and postgraduate students need to have an international vision and master international communication skills such as foreign languages. In-depth understanding of the development trend of high-tech industries, high-tech industries are developing rapidly.

References:

- [1] Cai Rongsui, Fu Yaqiu, Dou Xiuting, Huang Yongmei, Guo Chaohui. Analysis of Guangxi College Students' Postgraduate Entrance Examination Intention and Influencing Factors-Taking Guilin College Students as an Example [J]. Journal of Higher Education, 2016 (24): 39-41.
- [2] Sun Xiaosu, Yin Siyuan. Analysis of the influence of personal factors on the results of postgraduate entrance examination-based on logistic regression [J]. Journal of Shandong Institute of Business and Technology, 2019.33 (04): 45-53.