

Review of: "The Impact of Study Environment on Students' Academic Performance: An Experimental Research Study"

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Potential competing interests: No potential competing interests to declare.

Comments to the Author

The Impact of Study Environment on Students' Academic Performance: An Experimental Research Study

Thank you for the opportunity to review the paper titled 'The Impact of Study Environment on Students' Academic Performance: An Experimental Research Study'. Through the method of a control experiment, studying the influence of environmental noise level on students' performance is a topic worthy of attention, but there are still some shortcomings in each part that need to be further modified and improved.

Abstract

This part needs to be overhauled. In this sense, it should include the background and purpose of the study, the steps and methods of the experimental design, the specific process of the control experiment, and the results. Finally, the conclusion of the study, the difference in the impact of a high-noise environment and a low-noise environment on students' performance, and suggestions on how to avoid noise affecting students' performance.

Introduction

The introduction is a very dense part. At present, this part of the paper is very vague. It is not clear to find the necessity of the author carrying out this study, and what this study has contributed is not known. It should be emphasized that the noise level in the learning environment has different degrees of influence on different groups. I personally suggest that the 'Introduction' section needs to be rewritten.

Literature Review

The author needs to provide readers with an in-depth literature review. However, it is also difficult for me to understand and follow the introduction part. Many problems may be due to the lack of high quality in the language of the paper. In fact, it is very difficult for readers to understand the problems of this study.

The literature review part is not well written, and the existing research status is not sorted out to find the research basis for this study. Moreover, there is no good integration of relevant theories or existing research results; the author needs to add some literature. I personally suggest that you need to add the content of the literature review in the 'literature review' section.

Methodology

I personally have great doubts about this study. In this study, simple descriptive statistics, analysis of variance, and

correlation analysis are the results of the control experiment. I think it is necessary to strictly follow the steps of experimental design, such as pre-test and post-test, randomized controlled trials, breakpoint regression, and so on. At present, there is no good comparison between a high-noise environment and a low-noise environment in the article, which leads to the inability to infer the causal relationship between different noise levels and students' performance. What are the grouping criteria for the experimental study of 30 cases in this study? Which cases received the experimental intervention, and which is the control group? These problems are not seen in the text. Need to be supplemented.

Results and Findings

In this part, the author needs to present the results of the t-test and the significance P value in tables or figures, and interpret the results in combination with the existing literature. According to the above research results, the author explains whether the hypothesis proposed in this study is verified or falsified. What are the findings of this study? What is the interpretation of reality? And so on.

Conclusion

Based on the results of the experimental study, according to the relevant literature and theory, find a reasonable explanation mechanism, compare the differences in the impact of a high-noise and a low-noise environment on students' performance, and explain the essential reasons for the similarities and differences behind them. This part needs to be further modified to add whether the research hypothesis is verified.

In summary, I strongly suggest that the author needs to make major changes to this research paper, and I look forward to seeing a high-quality manuscript after the modification. I wish you all the best!