

# Review of: "Grit Predicts Academic Achievement among Undergraduate Science Teachers at a University of Science and Technology"

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Potential competing interests: No potential competing interests to declare.

**Overall, the manuscript is well-structured, and the methodology and results are clearly presented.**

## **Suggestions:**

Methodology Section:

### **Sample Description:**

- Provide more context on why undergraduates from the Bachelor of Science with Education were chosen for the study. Clarify if this sample is representative of a broader population and the rationale for focusing on this particular group.

### **Questionnaire Reliability:**

- While the study mentions the Cronbach's alpha for the scales used, it would be helpful to briefly explain what Cronbach's alpha measures and why it is important for the reliability of the questionnaire.

### **Data Management:**

- Specify the impurities removed during data editing. This can help readers understand the robustness of the data and any potential biases addressed.

Results Section:

### **Correlation Analysis:**

- Provide a brief interpretation of the correlation coefficients in Table 3. For example, describe what a weak positive correlation means in the context of grit and academic achievement.

### **Regression Analysis:**

- When presenting the regression results in Table 4, consider providing effect size measures (e.g., Cohen's  $f^2$ ) to help readers understand the practical significance of the associations found.

Discussion Section:

### **Comparison with Previous Studies:**

- In the discussion, elaborate on the findings in comparison to studies that found no relationship between grit and academic achievement. Discuss potential reasons for discrepancies and contribute to the ongoing academic conversation on this topic.

### **Implications:**

- Discuss the practical implications of the study findings in more detail. How can educators and institutions leverage these results to enhance student success?

Conclusion and Recommendations:

### **Limitations Acknowledgment:**

- Explicitly acknowledge the limitations of the study, such as the specific focus on science undergraduate teachers at a particular institution. Discuss how these limitations may impact the generalizability of the findings.

### **Recommendations Detail:**

- Provide more specific details on how workshops, seminars, and peer counseling sessions could be structured to enhance students' grit. Offer practical insights for implementation.

### **Future Research:**

- In the implications for further research, consider providing more concrete suggestions for designing a longitudinal study on grit and academic achievement. What specific aspects of grit could be explored, and how could the study be designed to capture changes over time?