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| Book Name: | [**An Overview of Literature, Language and Education Research**](https://www.bookpi.org/bookstore/product/an-overview-of-literature-language-and-education-research-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4312** |
| Title of the Manuscript: | **Taking an Innovative Education Approach in a Computing Course** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **Based on the content of the manuscript. This manuscript is useful for the scientific community. This study compares traditional educational approaches and innovative approaches in the context of computer science courses. This study demonstrates the effectiveness of innovative teaching strategies, such as combining generative artificial intelligence, active learning, and group activities to improve student engagement and academic performance. The results of this study provide valuable insights for educators and curriculum developers who are looking for evidence-based methods on critical thinking, creativity, and better learning outcomes in computing education. This study highlights the statistical significance of educational innovations that provide a strong foundation for future studies on the impact of modern teaching practices in STEM fields.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract of this book chapter is comprehensive because it outlines the main elements of the book chapter. The main elements of the abstract are a comparison between traditional and innovative educational approaches, the methods used in the study, and the findings of the study. The abstract highlights the improvements in academic performance and the statistical methods used in the assessment. However, there are a few suggestions for improvement, including: Clarity and Flow: The introduction to the innovative educational approach could be a little more concise. Consider simplifying phrases such as “a series of tasks such as individual hands-on activities” to something more direct, such as “individual, group, and AI-based activities.” Specificity in Results: The abstract mentions the results of the improvements in academic performance and success rates, providing a brief mention of specific statistical significance (e.g., “T-test results showed a statistically significant difference”) would strengthen the impact and clarify the methodology. Contextualization: It would be helpful to mention the broader context or implications of the study, such as how the findings inform future teaching strategies in computer science or other STEM disciplines. A revised version might read: “Innovative education focuses on developing skills such as creativity and critical thinking while enhancing the student experience. This study compared academic performance in an Introductory Science course** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Based on the information provided in the chapter book, this study is scientific and presents valid research results. The manuscript uses appropriate statistical methods, such as T-tests and statistical analysis of dispersion, to evaluate the differences between traditional and innovative educational approaches. The reported improvements in academic performance, success rates, and reliability (e.g., Cronbach's Alpha) are consistent with the expected results when implementing innovative teaching methods. In addition, the use of a control group (previous year classes with a traditional approach) and a systematic approach to comparing results strengthen the validity of the conclusions. The use of generative artificial intelligence as part of the innovative approach is well integrated and reflects current educational trends, increasing the relevance of the study. There are no apparent errors in the methodology or results, and the analysis is valid. However, it is important to ensure that the sample size and statistical tests used are appropriate for the conclusions. If the sample size is small or the results are close to the threshold of statistical significance, further verification with a larger group may be beneficial for broader generalization. Nevertheless, based on the data presented, this chapter book manuscript is scientifically sound.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **There are a few suggestions to strengthen the references:**  **Recent Developments in AI and Education: Given the increasing role of AI in education, it might be useful to include more recent references that explore the use of generative AI specifically in educational settings. This would help provide more context on the cutting-edge applications of AI in learning environments.**  **Broader Scope on Innovative Education: Including references that discuss the challenges and limitations of implementing innovative education strategies might offer a more balanced perspective. For instance, some studies focus on barriers to adopting innovative teaching methods, which could be important to mention for a comprehensive view.**  **Comparative Studies on Traditional vs. Innovative Approaches: While the manuscript does provide evidence from the author's study, additional references that compare traditional and innovative education methods in computing or other STEM fields would help contextualize the findings within broader trends.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The writing is formal, precise, and adheres to academic standards. However, there are a few areas where the language can be slightly improved for clarity and conciseness:**  **Sentence Structure: Some sentences could be more concise to improve readability. For example, phrases like "a set of duties such as an individual practical activity, a group activity, and a generative artificial intelligence activity" could be rephrased to something like "individual, group, and AI-based activities."**  **Consistency: Ensure consistent use of terminology throughout the manuscript. For instance, "innovative approach" and "traditional approach" are used frequently, but sometimes, more precise terms like "traditional teaching methods" or "conventional assessment methods" could be clearer.**  **Minor Language Tweaks: There are some minor issues related to word choice or prepositions. For instance:**  **"A decrease in dispersion statistics" might sound better as "a reduction in dispersion statistics."**  **"Tight specifications were established" could be simplified to "specific requirements were set."**  **Grammar: While the grammar is mostly correct, a few minor adjustments could make the writing flow more smoothly, especially in complex sentences.** |  |
| Optional/General comments | **A few optional comments and suggestions for improvement:**  **Some optional comments and suggestions for improvement: Contextualization of Findings: It would be helpful to briefly discuss the broader implications of the findings in the context of current trends in education. For example, how might these findings be applied to other fields or adapted for different student populations? Limitations: Including a section on limitations of the study, such as potential biases or sample size limitations, would strengthen the manuscript by offering a more balanced view of the results. This allows for a more nuanced discussion of how these findings might be generalized. Future Research: A section outlining a possible roadmap for future research, particularly in the area of ​​innovative education, provides useful direction for future research. For example, investigating the long-term impact of this innovative strategy on student retention or professional success could be valuable. Figures and Tables: The manuscript uses a large number of tables and figures to illustrate the results. While these figures and tables are effective, ensure that all tables and figures are consistently referenced and discussed in the text. Providing clear captions with a brief explanation of the significance of each table/figure helps readers understand the text.**  **1. Clarity and Structure: Overall, the manuscript is well-structured and clearly written. However, some sentences can be simplified for better readability, especially in sections explaining the methodology and results. The use of concise and straightforward language will help ensure that the key points are easily accessible to a wider audience.**  **2. Consistency: Ensure consistency in terminology, especially in the use of terms like "innovative education approach" and "traditional approach." These terms should be clearly defined early in the manuscript and used consistently throughout the paper.**  **3.Contextualization of Results: While the results are clearly presented, providing more context in terms of how these findings compare with previous studies would help readers understand the broader implications. A comparison with existing literature on similar educational interventions could further strengthen the manuscript.**  **4. Ethical Considerations: While there do not appear to be explicit ethical issues in the manuscript, it is recommended to include a brief mention of how ethical considerations, such as informed consent and data privacy, were addressed. This will ensure that the study adheres to ethical research standards.**  **5.Conclusion and Future Directions: The manuscript would benefit from a more detailed discussion on the future implications of this research. For example, it could explore the long-term effects of innovative education on student performance or potential applications of these methods in other courses or disciplines.**  **6. References and Citations: Ensure that all references are formatted consistently according to the style guide of the publication. Additionally, it may be helpful to include a few more recent references on the role of AI in education, given the proinence of generative AI in the innovative approach discussed in the manuscript.**  **These suggestions will help refine the manuscript and ensure its readiness for publication.** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **Juanda, M. Hum.** |
| Department, University & Country | **Universitas Negeri Makassar, Indonesia** |