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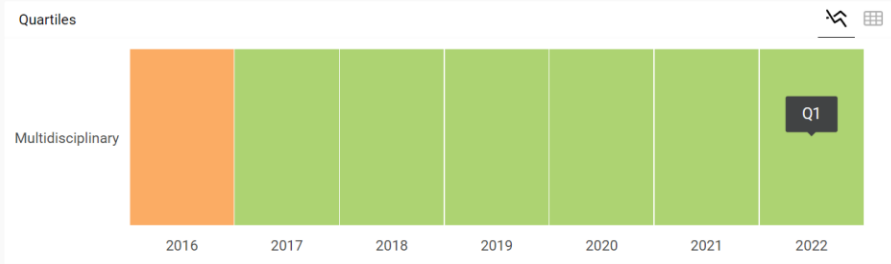
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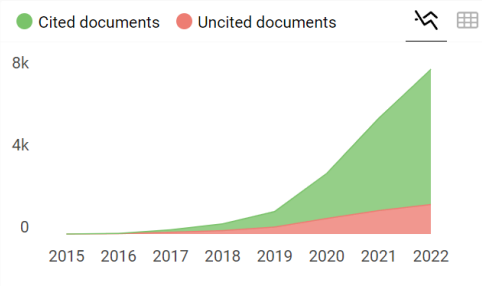
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SAMSUL MAARIF

in recognition of the review contributed to the journal

The Editors of Heliyon



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Review Due

When Mon Nov 6, 2023 (WIB)

Who Heliyon*

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Agenda

Mon Nov 6, 2023

No earlier events

All day Review Due

No later events

Manuscript Number: HELIYON-D-23-19830

Title: Enhancing Thai Student-Teacher Problem-Solving Skills and Academic Achievement through a Blended Problem-Based Learning Approach in Online Flipped Classrooms

Dear Dr Maarif,

Thank you for agreeing to review the above referenced manuscript HELIYON-D-23-19830 for Heliyon.

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Action	My Reviewer Number	Manuscript Number	Article Type	Article Title	Date Reviewer Invited	Date Reviewer Agreed	Date Review Due	Days Until Review Due	Editor Name
View Submission View Linked References Similar Articles in MEDLINE Submit Recommendation Send E-mail		HELION-D-23-19830	Original Research Article	Enhancing Thai Student-Teacher Problem-Solving Skills and Academic Achievement through a Blended Problem-Based Learning Approach in Online Flipped Classrooms	Oct 23, 2023	Oct 23, 2023	Nov 06, 2023	14	Micheal van Wyk, Ph.D.

Reviewer Recommendation and Comments for Manuscript Number HELIYON-D-23-19830

Enhancing Thai Student-Teacher Problem-Solving Skills and Academic Achievement through a Blended Problem-Based Learning Approach in Online Flipped Classrooms

Original Submission
Samsul SMF Maarif, Ph.D

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Recommendation: Invite Revision

Overall Manuscript Rating (1 - 100): 75

Custom Review Question(s):

Note: In order to effectively convey your recommendations for improvement to the author(s), and help editors make well-informed and efficient decisions, we ask you to answer the following specific questions about the manuscript and provide additional suggestions where appropriate.

1. Are the objectives and the rationale of the study clearly stated?

Please provide suggestions to the author(s) on how to improve the clarity of the objectives and rationale of the study. Please number each suggestion so that author(s) can more easily respond.

2. If applicable, is the application/theory/method/study reported in sufficient detail to allow for its replicability and/or reproducibility?

Please provide suggestions to the author(s) on how to improve the replicability/reproducibility of their study. Please number each suggestion so that the author(s) can more easily respond.

Response

Mark as appropriate with an X:
Not Applicable No and here is how they should be improved [X] Yes, there is no need for improvement

Provide further comments here:
The aim of the research can be seen at a glance, but it has not been written clearly in the introduction, so it is necessary to write down the research aims to be achieved in the research that will be carried out. Furthermore, research gap analysis is not yet visible. So it is important to write research gaps to strengthen the novelty of the research that has been carried out by describing research that has been carried out by other people. Then complement or update your research position so that the novelty will be clear

Mark as appropriate with an X:
Not Applicable No and here is how they should be improved [X] Yes, there is no need for improvement

Provide further comments here:

3. If applicable, are statistical analyses, controls, sampling mechanism, and statistical reporting (e.g., P-values, CIs, effect sizes) appropriate and well described?

Please clearly indicate if the manuscript requires additional peer review by a statistician. Kindly provide suggestions to the author(s) on how to improve the statistical analyses, controls, sampling mechanism, or statistical reporting. Please number each suggestion so that the author(s) can more easily respond.

4. If applicable, are the existing tables and/or figures complete and acceptable for publication?

Please provide specific suggestions for improvements, removals, or additions of figures or tables. Please number each suggestion so that the author(s) can more easily respond.

This research is the application of the Blended Problem-Based Learning Approach in Online Flipped Classrooms. Online Flipped Classrooms theories and Base Learning problems have been explained clearly and in detail. However, this research tries to develop a Blended Problem-Based with a flipped classroom which is not yet supported by theories that specifically discuss the relationship between the two. So it is necessary to add a sub for the literature review which discusses the relationship between PBL and FCs.

Mark as appropriate with an X:
Not Applicable No and here is how they should be improved [X] Yes, there is no need for improvement

Provide further comments here:
This research uses a mix-method, but the type of mix-method is not clearly written, whether it uses explanatory/exploratory/combine. In each part the methodology is also unclear, in the sense of what method to use for quantitative? And what method do you use for qualitative ones? In quantitative research, data results are obtained from experiments with data analysis using MANOVA. The data analyzed has illustrated the results of the experiment. However, the research hypothesis for the experimental part is not clear. The sample size has been written clearly and the results of data analysis have been written clearly.

Mark as appropriate with an X:
Not Applicable No and here is how they should be improved [X] Yes, there is no need for improvement

Provide further comments here:
Overall, the use of tables and figures is appropriate and readable. However, there are several figures and tables that need to be revised, namely:
1. In "figure 3. Online flipped classroom technologies and environments." The combination of background color and writing is biased so that the writing is less legible. The size of the writing on the image is also too small so it is not visible.
2. In "table 6. Statistics for preliminary examination of the agreement." Does not match the table in the journal template and is different from other tables.
3. In "table 8. Mean, SD and overall student-teacher FPM satisfaction are classified by overall and individual aspects.." Does not match the table in the journal template and is different from other tables.

5. If applicable, are the interpretation of results and study conclusions supported by the data?

Please provide suggestions (if needed) to the author(s) on how to improve, tone down, or expand the study interpretations/conclusions. Please number each suggestion so that the author(s) can more easily respond.

Mark as appropriate with an X:
Not Applicable No and here is how they should be improved [X] Yes, there is no need for improvement

Provide further comments here:
Overall the results and conclusions are supported by the data, however, in some parts it is necessary to add data to the results section, including:

- Page 12, line 47: Complete the average result data: pre-test, formative assessment, and summative assessment.
- Page 13, line 32: It is necessary to explain how long the learning process takes and what material is taught

Next, in the discussion section, there are several things that need to be improved, including:

- The discussion section should contain phenomena from the research results for further discussion by comparing the results of the meeting with previous research. So, the discussion section no longer discusses the problems that will be faced but focuses on the findings from research that has been carried out and compared with the results of previous studies to see whether they strengthen or falsify them.
- Page 17, line 31: This is the discussion section. It should not only display quantitative data from experimental results. However, the experimental data explains why it is significant, what factors cause it and compares it with the results of previous studies.
- Page 17, line 37: The finding that "research into the application of FAM shows that BL is very effective when used with FC" should be explored with a qualitative study in accordance with the method chosen, namely mixed methods

<p>6. Have the authors clearly emphasized the strengths of their study/theory/methods/argument?</p> <p>Please provide suggestions to the author(s) on how to better emphasize the strengths of their study. Please number each suggestion so that the author(s) can more easily respond.</p>	<p>Mark as appropriate with an X: Not Applicable <input type="checkbox"/> No and here is how they should be improved <input checked="" type="checkbox"/> Yes, there is no need for improvement <input type="checkbox"/></p> <p>Provide further comments here:</p> <p>The strengths of the study have been written clearly. However, the discussion section needs improvement, including:</p> <ol style="list-style-type: none"> The discussion section should contain phenomena from the research results for further discussion by comparing the results of the meeting with previous research. So, the discussion section no longer discusses the problems faced but focuses on the findings from research that has been carried out and compared with the results of previous studies to see whether they strengthen or falsify them. Page 17, line 31: This is the discussion section. It should not only display quantitative data from experimental results. However, the experimental data explains why it is significant, what factors cause it and compares it with the results of previous studies. Page 17, line 37: The finding that "study's FAM application showed that BL is highly effective when used with an FC" should be explored with a qualitative study in accordance with the method chosen, namely the mix method
<p>7. Have the authors clearly stated the limitations of their study/theory/methods/argument?</p> <p>Please list the limitations that the author(s) need to add or emphasize. Please number each limitation so that author(s) can more easily respond.</p>	<p>Mark as appropriate with an X: Not Applicable <input type="checkbox"/> No and here is how they should be improved <input checked="" type="checkbox"/> Yes, there is no need for improvement <input type="checkbox"/></p> <p>Provide further comments here:</p> <p>Research limitations have been written clearly. However, it is necessary to add to the shortcomings of this research, namely that the research method is not clear with the type of mix-method, namely exploratory, exploratory or merge/simultaneous.</p>
<p>8. Is the manuscript's structure, flow, or writing acceptable for publication? (Think for example of the addition of subheadings, shortening of text, reorganization of sections, or moving details from one section to another)</p> <p>Please provide suggestions to the author(s) on how to improve the manuscript structure and flow. Please number each suggestion so that author(s) can more easily respond.</p>	<p>Mark as appropriate with an X: Not Applicable <input type="checkbox"/> No and here is how they should be improved <input type="checkbox"/> Yes, there is no need for improvement <input checked="" type="checkbox"/></p> <p>Provide further comments here:</p> <p>The manuscript writing structure is in accordance with the template and accepted for</p>

<p>8. Is the manuscript's structure, flow, or writing acceptable for publication? (Think for example of the addition of subheadings, shortening of text, reorganization of sections, or moving details from one section to another)</p> <p>Please provide suggestions to the author(s) on how to improve the manuscript structure and flow. Please number each suggestion so that author(s) can more easily respond.</p>	<p>Mark as appropriate with an X: Not Applicable <input type="checkbox"/> No and here is how they should be improved <input type="checkbox"/> Yes, there is no need for improvement <input checked="" type="checkbox"/></p> <p>Provide further comments here:</p> <p>The manuscript writing structure is in accordance with the template and accepted for publication</p>
<p>9. Could the manuscript benefit from language editing?</p> <p>Do you want to join the Heliyon Advisory Board? Learn more about the Advisory Board Member role: Guide for Referees: Heliyon (cell.com)</p>	<p>No Yes</p>

Reviewer Comments to Author

Several points need improvement, including:

- Abstract**
 - Page 1, Lines 2-5: The learning objective is to develop a learning model, namely blended problem-based learning (PBL) approach in online flipped classrooms. If seen from the theoretical basis, the flipped classroom is one part of blended learning, so the author must be able to explain this to strengthen the philosophical reasons for the model development that has been carried out.
 - Page 1, Lines 10-12: It is necessary to clarify what model this "traditional classroom method" uses, because every learning carried out in the classroom must use a model even if we justify it as traditional learning
 - Page 1, Line 18: At the application stage, it is necessary to explain the method used, what is the experiment?
- Introduction**
 - Page 1, line 35: Data needs to be displayed, what percentage of schools in Thailand have implemented learning using an online learning model. This strengthens the argument for the importance of online learning in Thailand
 - Page 1, line 41: What is the flipped classroom as a solution? What is the problem that needs to be strengthened? What is the FC's position on this problem? It is necessary to reveal the results of research that has applied FC to the problems you have found so that it strengthens the argument that FC is a solution in learning.
 - Page 3, line 4: Research gap analysis is not yet visible. So it is important to write research gaps to strengthen the novelty of the research that has been carried out by describing research that has been carried out by other people, then complement or update your research position so that the novelty will be clear
 - Line 46: There needs to be strong data to provide a statement that FCs are like PBL. It can start from a philosophical basis or the results of previous studies which reveal that FCs focuses on learning that

Reviewer Comments to Author

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 - Line 46: There needs to be strong data to provide a statement that FCs are like PBL. It can start from a philosophical basis or the results of previous studies which reveal that FCs focuses on learning that emphasizes problem solving.
- Literature Review**
 - page 6, line 5: It is necessary to add a sub for the review literature which discusses the relationship between PBL and FCs.
 - Page 7, line 27: Research gap analysis not yet visible. So it is important to write research gaps to strengthen the novelty of the research that has been carried out by describing research that has been carried out by other people, then complement or update your research position so that the novelty will be clear.
 - page 7, line 43: Need to add research questions as objectives to be achieved from the research that has been carried out

4. Method

- The method used is not yet clear, the research uses a mixed method but whether it is exploratory, exploratory or combined is not written. The methodology is similar to Research & Development, but the researcher decided to use the Mix Method. The mix-method used is also not clear, what method is used in the quantitative part? And in the qualitative part, what method do you use?
-Lines 50-52: It is necessary to clarify the mix method used, whether exploratory, exploratory or combined. This is important to strengthen the methodology so that the research direction can be seen as a whole.

-Lines 50-52: It is also necessary to explain in diagram form the steps of the quantitative and qualitative methodology. State the purpose for each. Quantitative methodology uses what? What's the aim? What do you use for qualitative methodology? What's the aim?

-Lines 57-58: If we compare the methodologies in the abstract section, the methodology tends to be research & development, but the methodology section uses Mix-method. This requires a detailed explanation. Because the Steps in the methodology lead to R&D. So it is necessary to clarify the purpose of each method in the proposed mix method and align it in the abstract section.

- page 8, Line 12: What type do you need to explain? What is explanatory? Is it exploratory? What is combine? And it needs to be clarified which method to use for qualitative and what method to use for quantitative?

-Page 8, Line 22: These phases from phases 1-3 are the steps of development research. So, we have to clarify what this has to do with the mix method being run

-Page 8, line 47: Need to explain how long the evaluation process has taken and need to explain the evaluation instruments used

-Page 8, line 57: Need to explain the indicators of the instruments used

-Page 9, line 5: It is necessary to describe the indicators of the evaluation instrument carried out by the expert

-Page 9, line 37: It uses research development methodology. What is the relationship with the method that has been decided, namely the mix method?

Page 10, line 1: In figure 3, the writing on the image is too small and the color combination with the writing is a bit biased so it is less legible

-Page 10, line 21: Needs to be clarified for AA instruments. Because in the article only a questionnaire with multiple choices is written. It is necessary to explain the indicators used in forming the AA instrument so that it is clear what is being aimed at.

-Page 10, line 37: Need to explain the indicators of the instrument used

-Page 10, line 45: Collecting data and data analysis only focuses on experimental data from the model being developed. Meanwhile, data collection and analysis for the model development process are not explained in detail

-Page 10, line 53: The type of experimental design carried out is not yet visible and clear

-Page 12, line 48: Complete the average result data: pre-test, formative assessment, and summative assessment.

3

5. Result

-Page 12, line 47: Complete the average result data: pre-test, formative assessment, and summative assessment.

-Page 13, line 32: It is necessary to explain how long the learning process takes and what material is taught

- In "tables 6 and 8." Does not match the table in the Journal template and is different from other tables.

6. Discussions

- The discussion section should contain phenomena from the research results for further discussion by comparing the results of the meeting with previous research. So, the discussion section no longer discusses the problems faced but focuses on the findings from research that has been carried out and compared with the results of previous studies to see whether they strengthen or falsify them.

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-Page 17, line 37: The finding that "study's FAM application showed that BL is highly effective when used with an FC" should be explored with a qualitative study in accordance with the method chosen, namely the mix method

7. Conclusion

-page 17, line 51: Need to add implications of the research that has been carried out

8. Limitation

It is necessary to add to the shortcomings of this research, namely that the research method is not clear with the type of mix-method, namely exploratory, exploratory or merge/simultaneous.

9. References

Page 18, line 61: Adjust to the rules for writing references, it would be better to use references in the form of journals

3 ?

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Response

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Manuscript Number: HELIYON-D-23-19830

Enhancing Thai Student-Teacher Problem-Solving Skills and Academic Achievement through a Blended Problem-Based Learning Approach in Online Flipped Classrooms

Dear samsul_maarif Maarif,

Thank you for reviewing the above referenced manuscript for Heliyon, an open access journal that is part of the Cell Press family. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

I hope that you will consider Heliyon as a potential journal for your own submissions in the future.

Kind regards,

Micheal van Wyk, Ph.D.
Associate Editor - Education I
Heliyon

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