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ARTIKEL JURNAL INTERNASIONAL BEREPUTASI
BERDAMPAK FAKTOR**

Judul : **Problem-Based Learning Strategy:
Its Impact on Students' Critical and Creative Thinking Skills**

Nama Jurnal : **European Journal of Educational Research**

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Nama Pengusul : **Dr. Kardoyo, M.Pd.**

NIP : **196205291986011001**

Fakultas : **FAKULTAS EKONOMI
UNIVERSITAS NEGERI SEMARANG**

1. Submission (Your manuscript ID#2005180144 has been received)

Id	Title	File	Created	Abstract	Author(s)	Review Files	Status
2011210626	INVESTIGATING THE RELATIONSHIP OF MARKETING MIX STRATEGY AND SUSTAINABLE COMPETITIVE ADVANTAGE OF PRIVATE UNIVERSITY IN CENTRAL JAVA INDONESIA		2020-11-21 06:28:48	CLICK TO READ	DR. MUHSIN MUHSIN ASSOC. PROF. AHMAD NURKHIN MR. HENGY PRAMUSINTO		Refused UPDATE
2005180144	PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS		2020-05-22 03:22:56	CLICK TO READ	ASSOC. PROF. AHMAD NURKHIN DR. KARDOYO KARDOYO DR. MUHSIN MUHSIN MR. HENGY PRAMUSINTO		Published UPDATE

Your manuscript ID#2005180144 has been received

European Journal of Educational Research <editor@eu-jer.com> to me

Dear Dr. Ahmad Nurkhin (ahmadnurkhin@mail.unnes.ac.id),

This mail has been sent automatically by the system.

Your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (ID#2005180144) has been submitted successfully.

We will inform you about the developments of your paper. Thank you for your interest to our journal.

Best regards,

Editorial Office, European Journal of Educational Research
www.eu-jer.com
editor@eu-jer.com

2. Preliminary Review of Manuscript EU-JER ID#2005180144

The screenshot shows a Gmail interface on a desktop browser. The search bar at the top contains the email address 'editor@eu-jer.com'. The left sidebar shows navigation options: Compose, Inbox, Starred, Snoozed, Sent, Drafts, More, Meet (New meeting, My meetings), and Hangouts (Ahmad, No recent chats). The main content area displays an email titled 'Preliminary Review of Manuscript EU-JER ID#2005180144' from 'European Journal of Educational Research' to the user, dated 'Mon, May 18, 4:05 PM'. The email body contains the following text:

Dear Dr. Ahmad Nurkhin,

Thank you for your interest to our journal.

We have received your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY: ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (Manuscript EU-JER ID#2005180144) .

We are analyzing your paper whether it was suitable to the scope of our journal. And also we will check it for plagiarism. The status of your paper is "under preliminary review".

We will inform you about developments soon. Thank you for your patience.

Best regards,
Ahmet Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

3. Revision required the manuscript ID#2005180144

The screenshot shows a Gmail interface with a search bar containing 'editor@eu-jer.com'. The email is titled 'Revision required the manuscript ID#2005180144' and is dated 'Tue, May 19, 6:10 AM'. The sender is 'European Journal of Educational Research <editor@eu-jer.com>'. The email body contains the following text:

Dear Dr. Ahmad Nurkhin,

We have looked at your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (Manuscript ID#2005180144). It is suitable for our journal's scope.

However, our initial review of your paper has showed that your paper is not suitable our template. So the editorial process has been paused.

Please see the information in our web site: (<https://www.eu-jer.com/instructions-for-authors>)

Paper template: Author(s) should use this template for their paper(s). As you can see at the template, the manuscripts should include following parts: a full title, a short title to be used as a running head, author name(s), affiliated institution name(s), and email addresses, abstract, key words, introduction, literature review, methodology, findings/ result, discussion, conclusion, suggestions, limitations, and references. (click the icon to download and edit the template).(See https://www.eu-jer.com/eu-jer_paper_template.docx)

Your paper doesn't include "discussion, suggestions, and limitations" the parts. Also edit all references according to APA 7 style. (See <https://www.eu-jer.com/citation-guide>)

Please reorganize your paper and resubmit your paper again. We are waiting for your updated paper.

Thank you for your interest to our journal.

Best regards,
Ahmet Savas, Ph.D.
Editor-in-Chief, European Journal of Educational Research

The screenshot shows a Gmail interface with a search bar containing 'editor@eu-jer.com'. The email is titled 'Your manuscript ID#2005180144 has been received' and is dated 'Fri, May 22, 10:23 AM'. The sender is 'European Journal of Educational Research <editor@eu-jer.com>'. The email body contains the following text:

Dear Dr. Ahmad Nurkhin (ahmadnurkhin@mail.unnes.ac.id),

This mail has been sent automatically by the system.

Your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (ID#2005180144) has been submitted successfully.

We will inform you about the developments of your paper. Thank you for your interest to our journal.

Best regards.

Editorial Office, European Journal of Educational Research
www.eu-jer.com
editor@eu-jer.com

At the bottom of the email, there are buttons for 'Reply' and 'Forward'.

4. Completed the preliminary review the manuscript ID#2005180144

The screenshot shows a Gmail interface on a desktop browser. The search bar at the top contains 'editor@eu-jer.com'. The email title is 'Completed the preliminary review the manuscript ID#2005180144'. The sender is 'European Journal of Educational Research <editor@eu-jer.com>' and the recipient is 'me'. The email is dated 'Fri, May 22, 5:53 PM'. The body of the email contains the following text:

Dear Assoc.Prof. Ahmad Nurkhin,

We have completed the preliminary review for your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY: ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (Manuscript ID#2005180144). It is suitable for our journal's scope. We have sent your paper to the referees to evaluate.

PS. Your paper has passed the test of plagiarism. You can see the plagiarism report of your paper at this link:
https://drive.google.com/file/d/1o_XZXuBimh2k4G4ikLZphVqxyJ-fHJk0/view?usp=sharing

We will inform you about the result, when we get the reports from referees.

Thank you for your interest to our journal
Best regards,

Ahmet C. Savas, Ph.D.
Editor-in-Chief, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

At the bottom of the email, there is a link to a document: 'EUJER_ID_2005180144_1.docx'.

5. Corrections request for the manuscript ID# 2005180144

The screenshot shows an email from the Editor of the European Journal of Educational Research. The subject is "Corrections request for the manuscript ID# 2005180144". The email is dated Saturday, June 13, 8:11 PM. The content of the email is as follows:

Dear Dr. Ahmad Nurkhin,

After a thorough double-blind review, I am pleased to inform you that your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (ID#2005180144) can be published on condition that corrections are made.

Please consider the reviewers' reports and emendations about your paper, please edit your manuscript and resend the finalized paper via email to us as soon as possible. In addition, we request to fill out the attached correction report what you have done as a word file. Please also highlight the edited parts (or use track changes mode in word).

After we check your manuscript, we will send you the acceptance letter. The deadline for sending your finalized paper is **June 30, 2020**.

1- Please check the language of the whole paper usage for clear meaning.
2- Please check all references for compatibility to APA 7 style (Please see the citation guide page in our web site: <https://eu-jer.com/citation-guide>).
3- Please try to use at least 2 references from our journal (www.eu-jer.com – especially Vol.8- Vol.7) in order to increase the impact factor in Scopus.
4- Provide English translation of the title of non English sources in square brackets:
Eg.
Veziroglu, M., & Gonen, M. (2012). Resimli çocuk kitaplarının MEB Okul Öncesi Eğitim Programı'ndaki kazanımlara uygunluğunun incelenmesi [Review of the eligibility of picture books to the acquisition of the preschool education program of the ministry of national education]. *Education and Science/Eğitim ve Bilim*, 37(163), 227-237.

Note: If all of the corrections don't be completed, the paper will be refused.

The screenshot shows the same email, but with the attachments section visible. The text above the attachments is:

Please confirm when you get this email. We are looking forward to hearing you.

Best regards,

Ahmet Savas, Ph.D.
Editor-in-Chief, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

6 Attachments

The attachments are:

- EU-JER_REVIEWER...
- EU-JER_REVIEWER...
- CORRECTION REP...
- EUJER_ID_200518...
- EUJER_ID_200518...
- EU-JER_REVIEWER...

mail.google.com

Gmail editor@eu-jer.com

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Inbox Starred Snoozed Sent Drafts More

Meet New meeting My meetings

Hangouts Ahmad

No recent chats

12 of 18

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to Editor Sun, Jun 14, 12:10 AM

Dear Editor,

Thank you for the information. We'd like to revise our paper based on the comments from the reviewers.

Thank you.

Best regards,
Ahmad Nurkhin

Editor - European Journal of Educational Research <editor@eu-jer.com> to me Mon, Jun 15, 10:45 PM

Thanks, noted.

Best regards.

Ahmet Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

mail.google.com

Gmail editor@eu-jer.com

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No recent chats

12 of 18

Editor - European Journal of Educational Research <editor@eu-jer.com> to me Jun 15, 2020, 11:02 PM

Dear Dr. Nurkhin,

We have just received the comments of the field editor. Please consider the below comments also:

General Remarks:

1. The author studied problem-based learning and its effects on students' critical and creative thinking skills through classroom action research, and this is relevant to 21st-century teaching and learning.
2. The result of the study will be useful to educators teaching the same course.

Recommendations:

1. Include the details/basis on how to assess students' critical and creative thinking skills of the students.
2. An appropriate description of the methodology is encouraged. Discuss classroom action research. Include targets, guide questions, and rubrics used.
3. Include the discussion on how to utilize problem-based learning in classroom action research.
4. May include sample guide questions and sample responses of the students during the class activity.
5. Providing recent journal articles related to your paper are encouraged to support your writing better.
6. Include the summary and implication of the research in the discussion part.
7. Improved the paper by omitting unnecessary words and phrases.

Best regards.

Ahmet Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com

mail.google.com

Gmail editor@eu-jer.com

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12 of 18

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to Editor Jun 19, 2020, 5:26 PM

Dear Editor of European Journal of Educational Research,

We sent our revised manuscript. Please kindly find the attachment files.

Thank you.

Best regards,

Ahmad Nurkhin, S.Pd., M.Si.
 Department of Economic Education
 Faculty of Economics
 Universitas Negeri Semarang (UNNES)
<http://blog.unnes.ac.id/nurkhin/>

2 Attachments

CORRECTION REP... EUJER_ID_200518...

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Meet

New meeting My meetings

Hangouts

Ahmad

No recent chats

12 of 18

Editor - European Journal of Educational Research <editor@eu-jer.com> to me Jun 19, 2020, 5:54 PM

Dear Dr. Nurkhin,

We have received your revised paper ID# 2005180144 and correction report. We are sending them to our reviewers again in order to check. We will inform you when we get the result from our reviewers.

Thank you for your patience.

Best regards,


Ahmet Savas, Ph.D.
 Editor-in-Chief, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to Editor Jun 22, 2020, 11:31 AM


Thank you very much.


Reply Forward

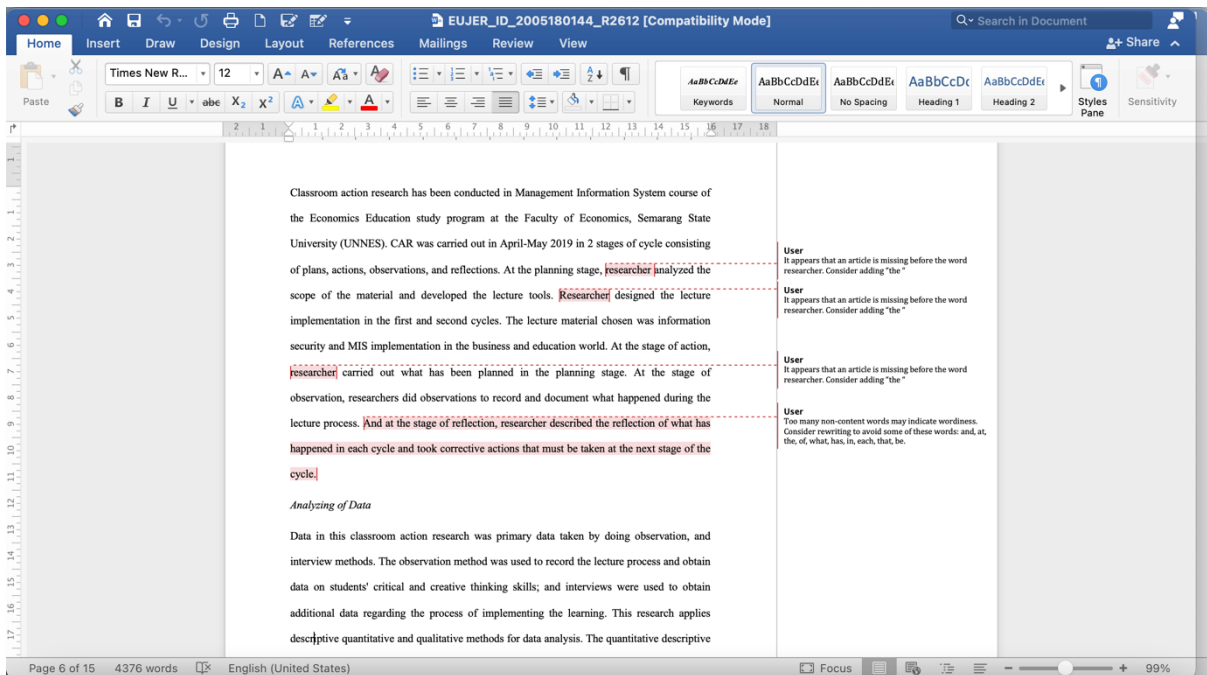
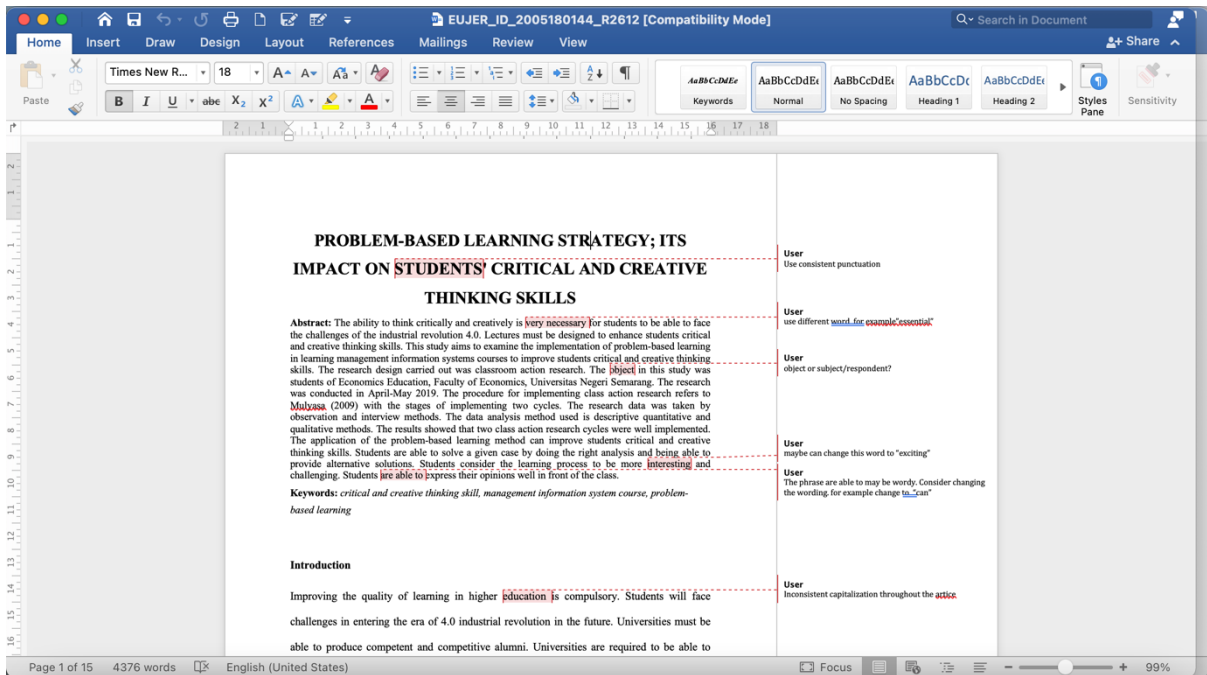
Masukan dari reviewer #01 (R2611)

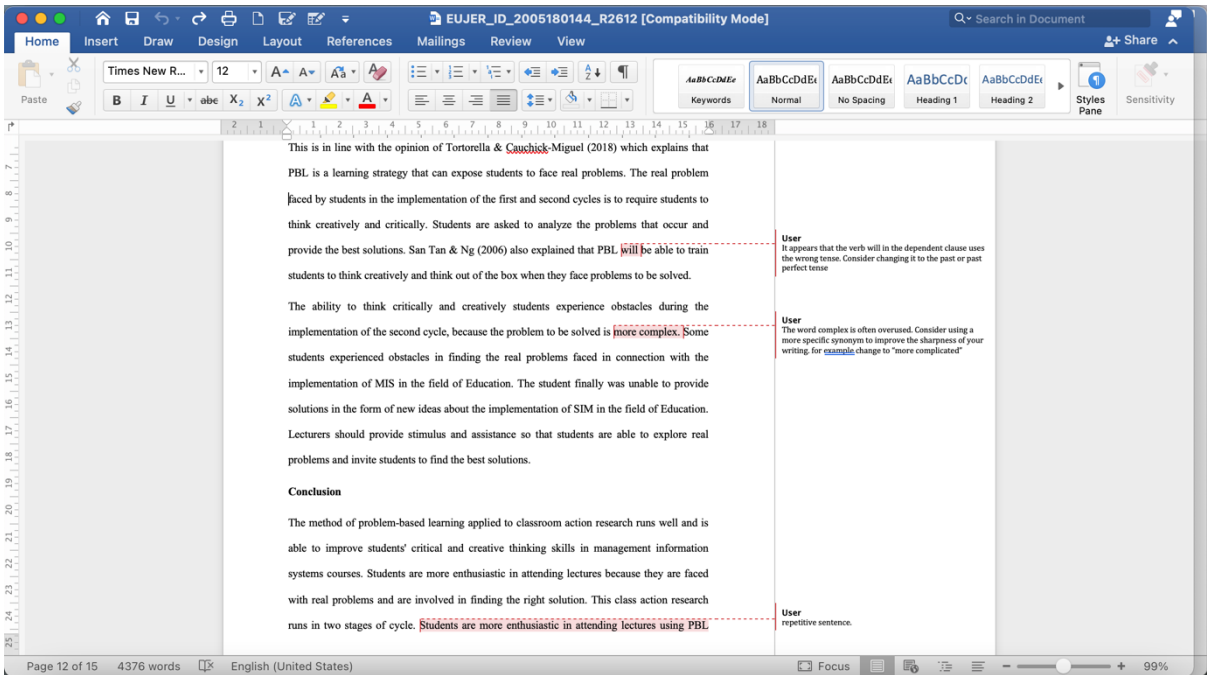
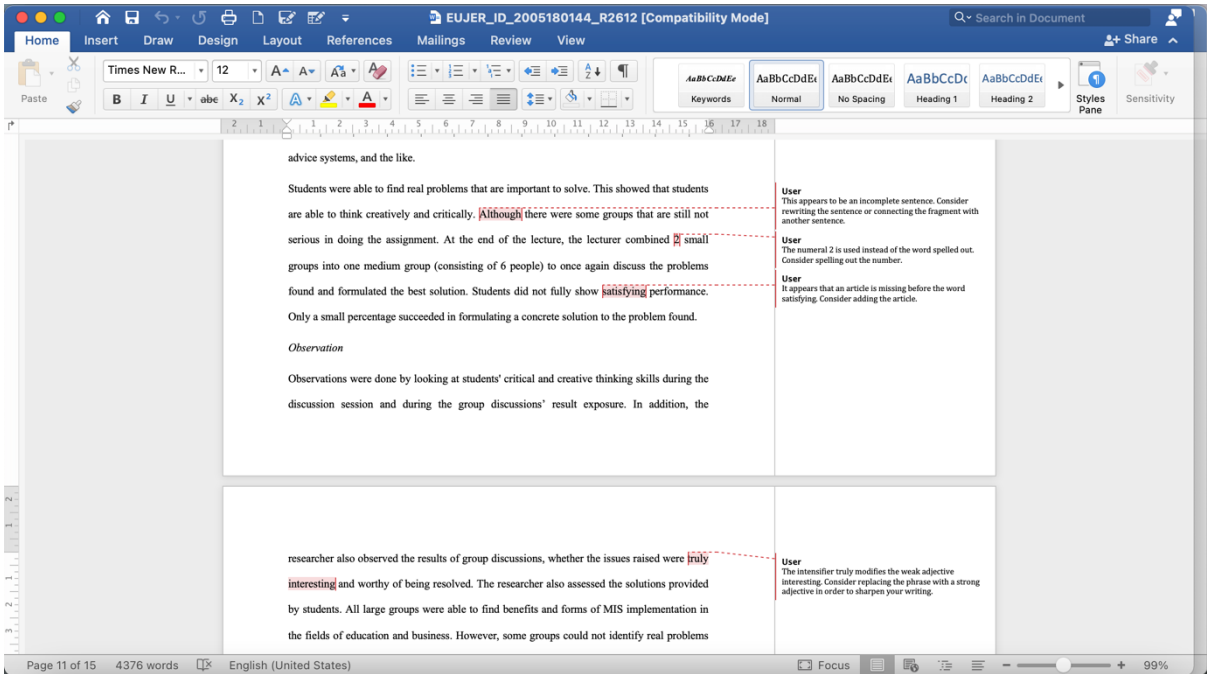
		<p style="text-align: center;">European Journal of Educational Research ISSN: 2165-8714 http://www.eu-jer.com/</p>			
Review Form					
Manuscript ID:	EU-JER ID#	Date:	31.05.2020		
Manuscript Title:	PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS				
ABOUT MANUSCRIPT (Mark with "X" one of the options)		Accept	Weak	Refuse	Not Available
Language is clear and correct		Accept			
Literature is well written			Weak		
References are cited as directed by APA		Accept			
The research topic is significant to the field		Accept			
The article is complete, well organized and clearly written					
Research design and method is appropriate		Accept			
Analyses are appropriate to the research question			Weak		
Results are clearly presented		Accept			
A reasonable discussion of the results is presented			Weak		
Conclusions are clearly stated		Accept			
Recommendations are clearly stated		Accept			
GENERAL REMARKS AND RECOMMENDATIONS TO THE AUTHOR					
<p>I agree with author(s) about this sentence that ability of creative thinking is very important for students to understand problems, especially non-routine (real life) problems. Therefore, it would very important to emphasize this point for both the education and the PBL implementation in various education disciplines in terms of the literature review, but there is no deepen review for the related literature. So, I suggest the author(s) to enlarge frame the literature review especially in various education disciplines regarding the implementing PBL to reveal necessity of this study particularly in education. To this point, some studies are below for the literature review:</p> <p>Wahyuni, K. (2018). The Effect of Problem-Based Learning on the Creative Thinking and Critical Thinking Disposition of Students in Visual Arts Education. <i>Interdisciplinary Journal of Problem-Based Learning</i>, 12(1). Available at: https://doi.org/10.7771/1541-5015.1649</p> <p>Rendani, B. (2012). Measuring Change in Critical Thinking Skills of Dental Students Educated in a PBL Curriculum. <i>Journal of Dental Education</i>, 76(4), 443-453.</p> <p>As a connection about of this point, a research question may be adding in the manuscript after clarification of the study's aim. So, the purpose and research question of this study will be clearer for the reader than present. The sentence in the manuscript (Students will interact with real problems in the MIS field and will be asked to find solutions to the problem by discussing, finding supporting data sources, etc.) shows that the hypothesis will be that the PBL method will increase MIS students' creative and critical thinking. For such hypothesis, it is necessary to review literature regarding the PBL implementation in various education disciplines.</p> <p>Regarding the result, problem finding is increasing creative thinking more than problem answering, so, arrived result is consistent with the creative thinking literature. On the other hand, the results of the study in terms of promoting and increasing creative critical thinking could be supported by the study findings in the literature. As a result, this manuscript should be developed in both of the literature review and the discussion section based on the other PBL study findings in accordance with the research question. Although there are the limitations of this study that author(s) accepted the limitations especially in terms of the measurement-contributes to the PBL literature for learning outcomes as creative and critical thinking in the perspective of MIS learning.</p>					

Masukan dari reviewer #02 (R2612)


		<p align="center">European Journal of Educational Research</p> <p align="center">ISSN: 2165-8714 http://www.eu-jer.com/</p>			
Review Form					
Manuscript ID:	EU-JER ID# 2005180144	Date:	9th June 2020		
Manuscript Title:	PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS				
ABOUT MANUSCRIPT (Mark with "X" one of the options)		Accept	Weak	Refuse	Not Available
Language is clear and correct			/		
Literature is well written		/			
References are cited as directed by APA		/			
The research topic is significant to the field		/			
The article is complete, well organized and clearly written			/		
Research design and method is appropriate		/			
Analyses are appropriate to the research question			/		
Results are clearly presented			/		
A reasonable discussion of the results is presented		/			
Conclusions are clearly stated		/			
Recommendations are clearly stated		/			
GENERAL REMARKS AND RECOMMENDATIONS TO THE AUTHOR					
<p>This research was conducted to examine students' critical and creative thinking skills in learning Management Information Systems (MIS) courses through problem-based learning. The findings indicate that problem-based learning method can improve students' critical and creative thinking skills. The topic could be of interest to those who assess the critical and creative thinking skills of students at different level. However, in its current form the manuscript is not ready for publication. Below are areas of concern:</p> <p>1) Introduction: The line of argumentation is not precise and weak. Why is it important to assess the students' critical and creative thinking skills in MIS? The authors need to make problem statement precise and supported by literature. Many claims were made without the support of literature. The operational definition of students' critical and creative thinking skills needs to be given, so that these can guide the writing of 'Discussion'.</p> <p>2) Methodology: There are many models of action research. Which model did the researcher use? The description of the respondents need to be precise, how many of them?, what age? How many girls/boys?...etc. What were the instruments used to obtain data on students' critical and creative thinking skills? The analysis method for qualitative data was not explained.</p> <p>3) Results and Discussion: The Implementation of First Cycle and Second Cycle should be relocated to 'Methodology'. The authors should show some quotes excerpted from written reflections and observations as evidences.</p> <p>4) Some references of the manuscript didn't fit in with APA Publication Manual guidelines.</p> <p>In sum, the paper needs to be restructured. The problem statement, data collection tools and data analysis in this paper was unclear.</p> <p>This article is generally good, but the author needs to make improvements so that the presentation is better and more precise, especially in the results and discussions part.</p> <p>The author also needs to do proofreading before resubmitting the article to make the presentation clearer. Please refer the other comments in the article.</p>					

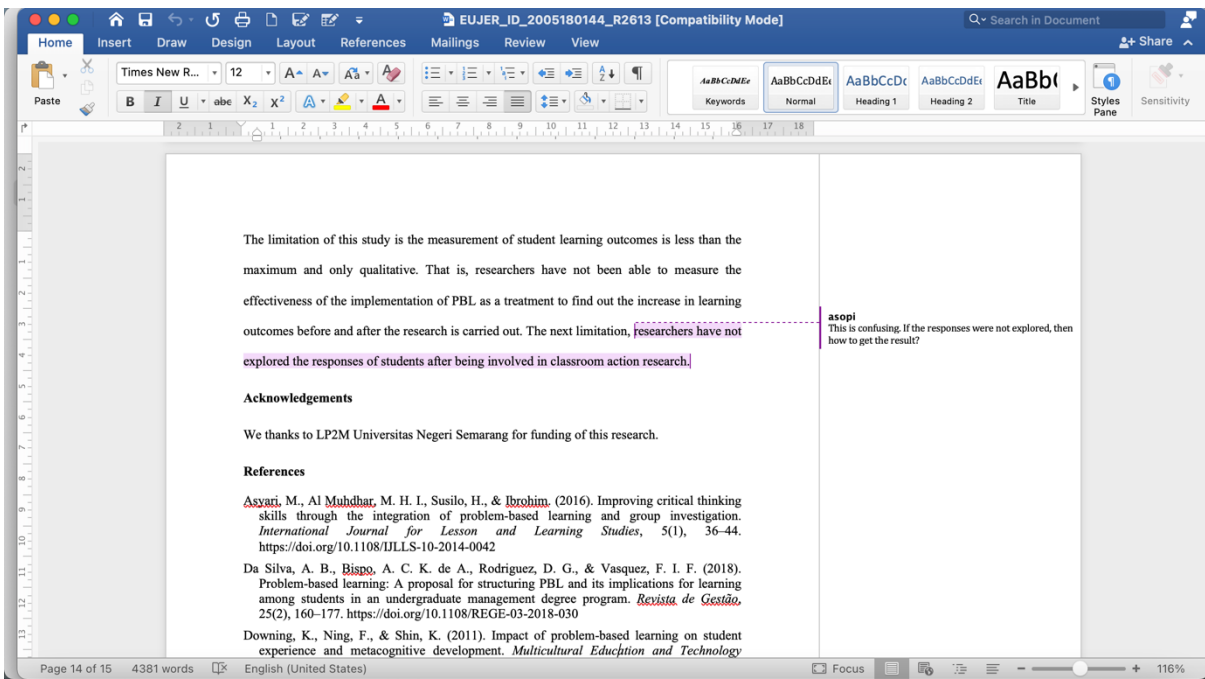
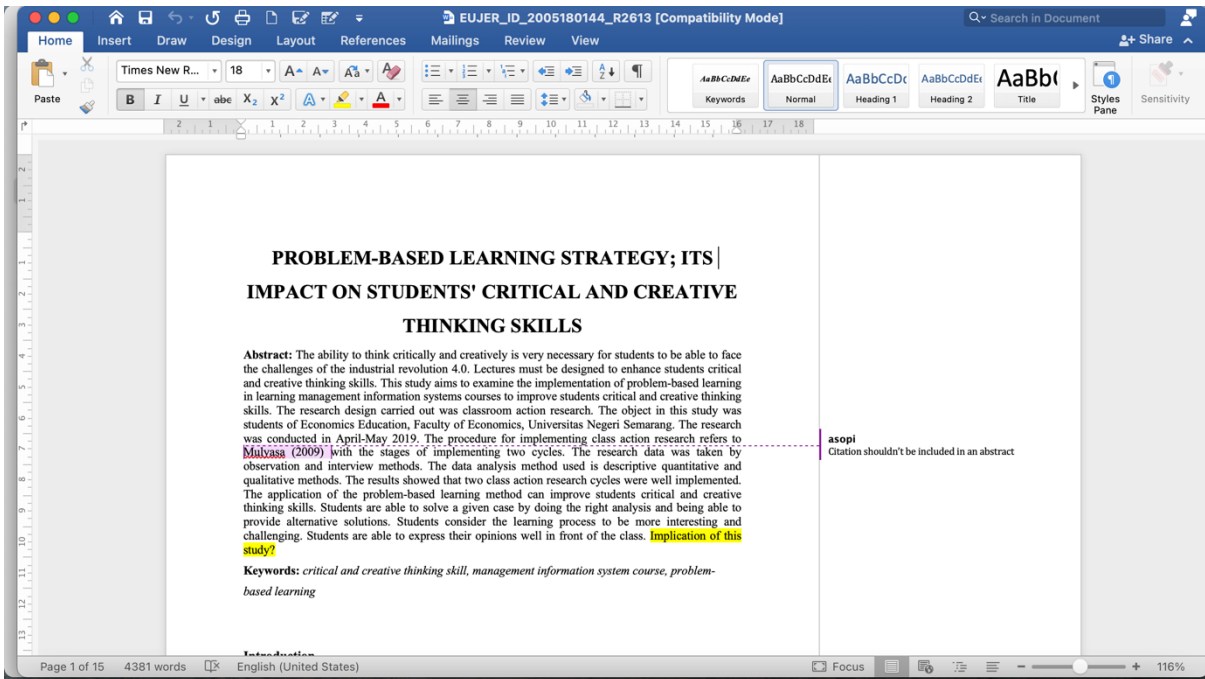
		<p align="center">European Journal of Educational Research</p> <p align="center">ISSN: 2165-8714 http://www.eu-jer.com/</p>		
THE DECISION (Mark with "X" one of the options)				
Accepted: Correction not required				
Accepted: Minor correction required				
Conditionally Accepted: Major Correction Required (Need second review after corrections)				X
Refused				
Reviewer Code: R2612 (The name of referee is hidden because of blind review)				





Masukan dari reviewer #03 (R2613)

		<h2 style="text-align: center; text-decoration: underline wavy;">European Journal of Educational Research</h2> <p style="text-align: center;">ISSN: 2165-8714 http://www.eu-jer.com/</p>			
Review Form					
Manuscript ID:	EU-JER ID#	Date:	30 May 2020		
Manuscript Title:	Problem-Based Learning Strategy: Its Impact on Students' Critical Thinking and Creative Thinking Skills				
ABOUT MANUSCRIPT (Mark with "X" one of the options)		Accept	Weak	Refuse	Not Available
Language is clear and correct			X		
Literature is well written			X		
References are cited as directed by APA		X			
The research topic is significant to the field		X			
The article is complete, well organized and clearly written			X		
Research design and method is appropriate			X		
Analyses are appropriate to the research question			X		
Results are clearly presented			X		
A reasonable discussion of the results is presented			X		
Conclusions are clearly stated			X		
Recommendations are clearly stated			X		
GENERAL REMARKS AND RECOMMENDATIONS TO THE AUTHOR					
<p>First at all, the themes of creative and critical thinking skills play crucial role for students in the era of 4.0. However, author(s) failed in providing a good introduction that bring readers the urgency of the topic. Additionally, author cannot explain what is the contribution clearly for the current study. The author(s) should start with the global need for critical and creative thinking skills for students the explain prior studies that have already known.</p> <p>Second, in the method part, the measurement of creative and critical thinking skill seems unclear. What is the indicator to understand both variables? How we know that there is an increasing between the first and the second cycle? In what topic that was conducted? Why? What about the characteristic of respondent?</p> <p>In the discussion section, it should be clear what or why the students' critical and creative thinking can be increased by applying PBL? Then it should be elaborated with some prior evidences.</p> <p>Lastly, author(s) need to enhance the language by proofing to proof readers that make it readable.</p>					
THE DECISION (Mark with "X" one of the options)					
Accepted: Correction not required					
Accepted: Minor correction required					
Conditionally Accepted: Major Correction Required (Need second review after corrections)					X
Refused					
Reviewer Code: R2613 (The name of referee is hidden because of blind review)					



Rekap Hasil Perbaikan Manuskrip

Microsoft Word interface showing the 'CORRECTION REPORT' for Article ID #2005180144. The title is 'PROBLEM-BASED LEARNING STRATEGY: ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS'.

The report includes a table with the following data:

No	Reviewer Code	Reviews	Corrections made by the author
1	R2011	So, I suggest the author(s) to enlarge frame the literature review especially in various education disciplines regarding the implementing PBL to reveal necessity of this study particularly in education. To this point, some studies are below for the literature review. Uppu, K. (2018). The Effect of Problem-Based Learning on the Creative Thinking and Critical Thinking Orientation of Students in Visual Arts Education. <i>Interdisciplinary Journal of Problem-Based Learning</i> , 13(1). Available: https://doi.org/10.7777/1541-2013.1341 Dudman, B. (2012). Measuring Change in Critical Thinking Skills of Dental Students Educated in a PBL Curriculum. <i>Journal of Dental Education</i> , 76(4), 443-453.	We add the articles that recommended by reviewers. And we use it to study literature about problem-based learning. See page 4 and 6.
2	R2011	As a connection about of this point, a research question may be adding in the manuscript after clarification of the study's aim. So, the purpose and research question of this study will be clearer for the reader than present. The sentence in the manuscript (Students will interact with real problems in the MS field and will be asked to find solutions to the problem by discussing, finding supporting data sources, etc.) shows that the hypothesis will be that the PBL method will increase MS students' creative and critical thinking. For such hypothesis, it is necessary to review literature regarding the PBL implementation in various education disciplines.	We provide research question and related to the purpose of this study. Implementation of PBL will improve the students' critical and creative thinking skills. Page 3.
3	R2012	1) Introduction: The line of argumentation is not precise and weak. Why is it important to assess the students' critical and creative thinking skills in MS? The authors need to make problem statement precise and supported by literature. Many claims were made without the support of literature. The operational definition of students' critical and creative thinking skills needs to be given, so that these can guide the writing of 'Discussion'.	We provide one paragraph in introduction to argue that critical and creative thinking are very crucial for student. Page 1.

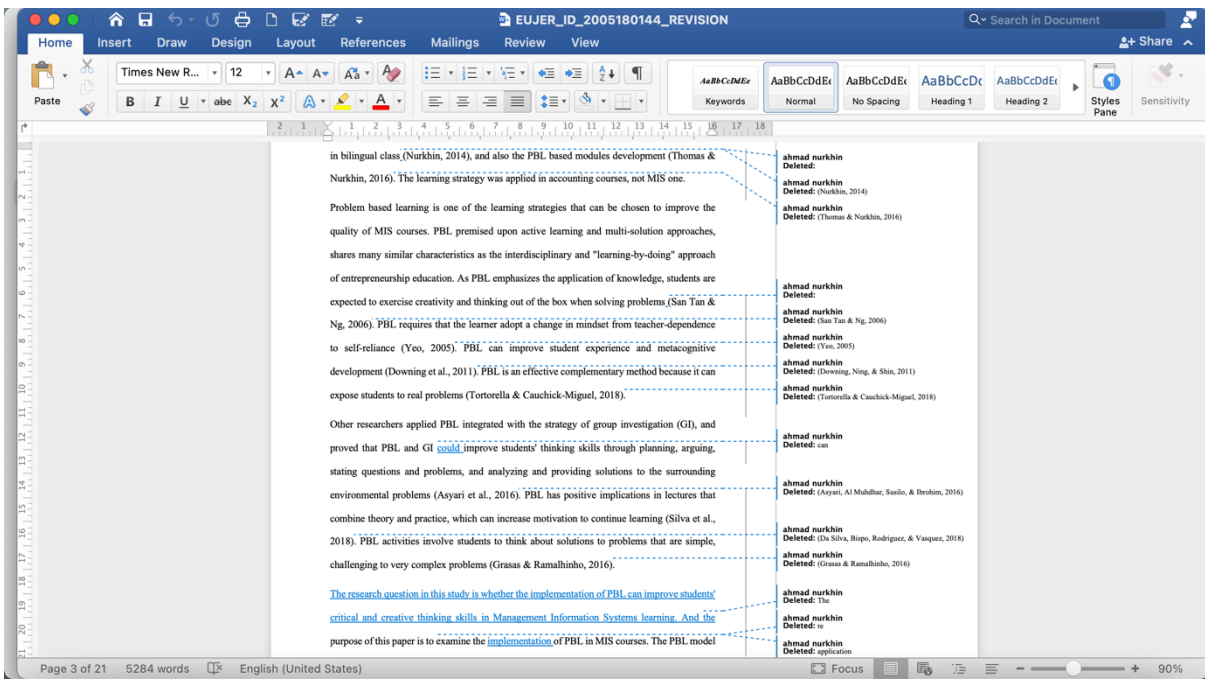
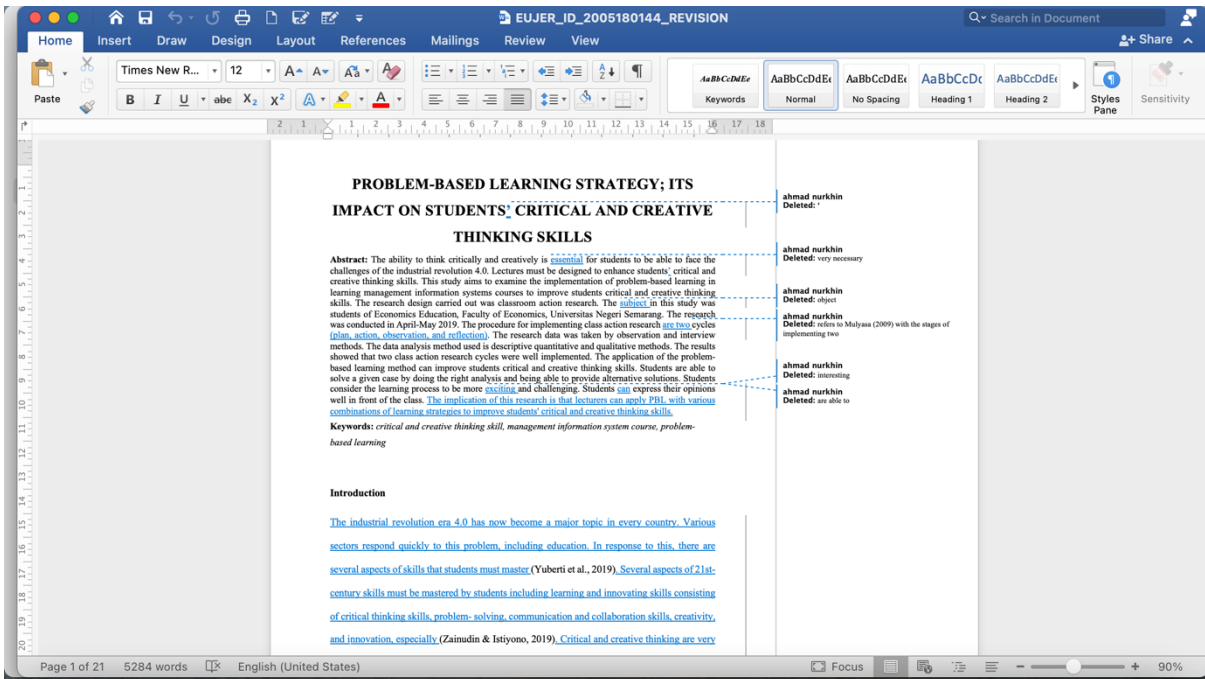
Page 1 of 10 | 1026 words | English (United States) | 75%

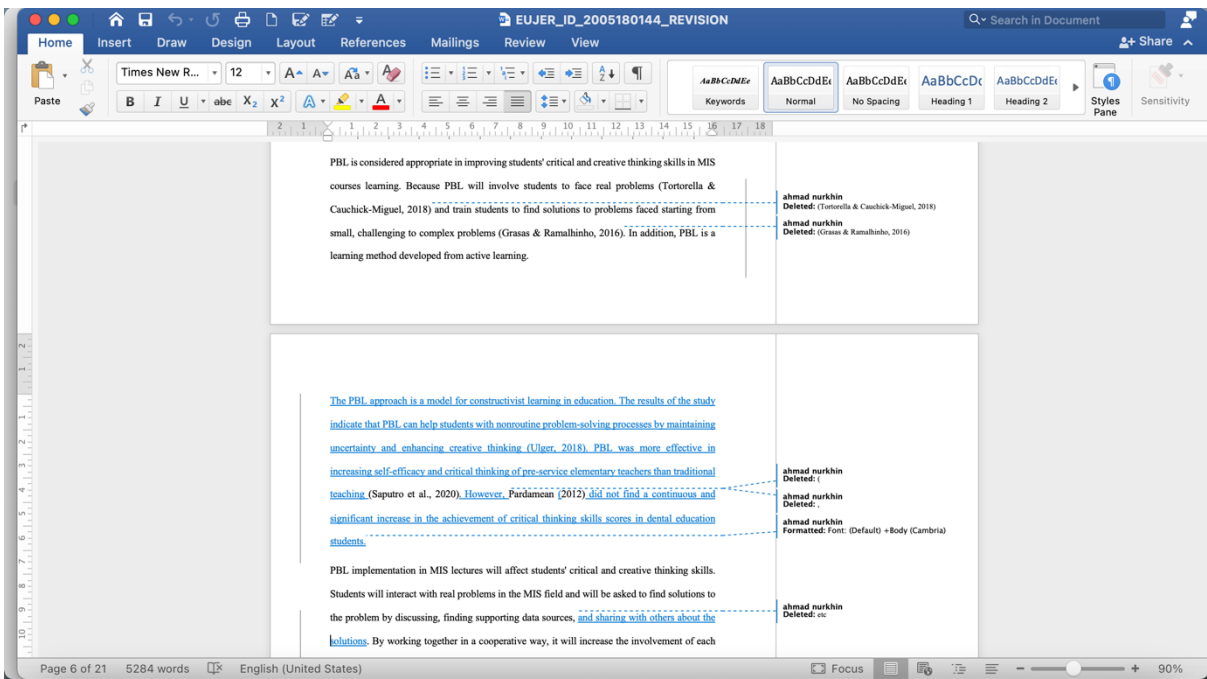
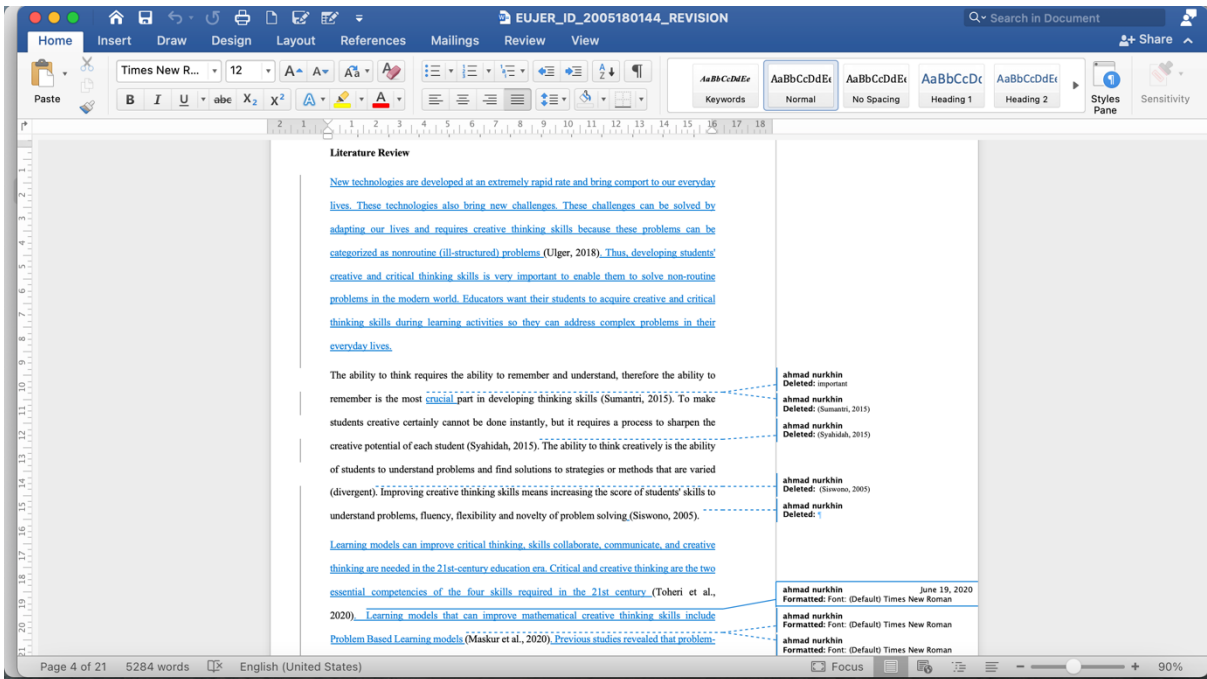
Microsoft Word interface showing the 'CORRECTION REPORT' for Article ID #2005180144, continuing from page 4.

The report includes a table with the following data:

4		2) Methodology: There are many models of action research. Which model did the researcher use? The description of the respondents need to be precise, how many of them?, what age? How many girls/boys, etc. What were the instruments used to obtain data on students' critical and creative thinking skills? The analysis method for qualitative data was not explained.	We add the description of respondents and instruments. Page 7.
5		3) Results and Discussion: The implementation of First Cycle and Second Cycle should be relocated to 'Methodology'. The authors should show some quotes excerpted from written reflections and observations as evidences.	We revised the result and discussion. Page 9-14.
6		4) Some references of the manuscript didn't fit in with APA Publication Manual guidelines.	We used the 7th APA style for references. Page 18-21.
7	R2013	First at all, the themes of creative and critical thinking skills play crucial role for students in the era of 4.0. However, author(s) failed in providing a good introduction that bring readers the urgency of the topic. Additionally, author cannot explain what is the contribution clearly for the current study. The author(s) should start with the global need for critical and creative thinking skills for students the explain prior studies that have already known.	We revised the introduction. Page 1-3.
8		Second, in the method part, the measurement of creative and critical thinking skill seems unclear. What is the indicator to understand both variables? How we know that there is an increasing between the first and the second cycle? In what topic that was conducted? Why? What about the characteristic of respondent?	We revised the method part. Page 4-6.
9		In the discussion section, it should be clear what or why the students' critical and creative thinking can be increased by applying PBL? There it should be elaborated with some prior evidences.	We revised the discussion section. Page 15.
10		Lastly, author(s) need to enhance the language by proofing to proof readers that make it readable.	We did proofread.
11	Editor via email	1- Please check the language of the whole paper usage for clear meaning.	We checked the language by doing proofreading.
12		2- Please check all references for compatibility to APA 7 style (Please see the citation guide page in our web site: https://ejournal.uin-suka.ac.id/citation-guide).	We used APA 7th Style for references. Page 18-21.
13		3- Please try to use at least 2 references from our journal (www.uin-suka.ac.id) - especially Vol.8- Vol.7) in order to increase the impact factor in Scopus.	We have added at least 2 references from this journal. The references were added. Page 18-21.
14		4- Provide English translation of the title of non-English sources in square brackets.	We added the English translation in square brackets. Page 18-21.
15	Editor via second email	1. Include the detail/basis on how to assess student's critical and creative thinking skills of the students.	We revised introduction section. Page 1.
16		2. An appropriate description of the methodology is encouraged. Discuss clear action research. Include targets, guide questions, and rubrics used.	We revised methodology section. Page 4-5.

Page 4 of 10 | 1026 words | English (United States) | 81%





6. Second round corrections request for the manuscript ID# 2005180144

The screenshot shows a Gmail interface with the search bar set to "editor@eu-jer.com". The email subject is "Second round corrections request for the manuscript ID# 2005180144". The sender is "Editor - European Journal of Educational Research" (editor@eu-jer.com), dated Tuesday, June 23, 11:00 PM. The email content reads:

Dear Dr. Nurkhin,

The reviewers R2611 and R2612 have confirmed your revised paper.

However R2613 has given additional corrections as you can see at the below and at the attached file:

R2613: "I would like to inform that the author(s) has moderately cover the existing issues in the paper. In more detail, it can be seen in the comment in the body text. In addition, academic English is the primary issue in the paper. I have provided an example (changes) in the introduction part (it can be used if applicable) then it can be enhanced by author(s)."

Please do all these corrections and send the finalized paper as soon as possible. We are looking forward to getting your second revised paper.

Best regards,

Ahmet Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

On 22.06.2020 07:31, Ahmad Nurkhin wrote:

The screenshot shows a Gmail interface with the search bar set to "editor@eu-jer.com". The email subject is "Second round corrections request for the manuscript ID# 2005180144". The sender is "Ahmad Nurkhin" (ahmadnurkhin@mail.unnes.ac.id), dated Tuesday, June 23, 11:09 PM. The email content reads:

Dear Editor,

Thank you for the information. We will revise the paper as soon as possible.

Best regards,
Ahmad Nurkhin, S.Pd., M.Si.
Department of Economic Education
Faculty of Economics
Universitas Negeri Semarang (UNNES)
<http://blog.unnes.ac.id/nurkhin/>

The email also includes an attachment titled "EUJER_ID_200518..." and a snippet of text from a document that reads: "PROBLEM BASED LEARNING STRATEGIES IN IMPACT ON COGNITIVE, PSYCHOLOGICAL AND CREATIVE THINKING SKILLS".

mail.google.com

Gmail editor@eu-jer.com

UNNES

Compose

Inbox

Starred

Snoozed

Sent

Drafts

More

Meet

New meeting

My meetings

Hangouts

Ahmad

No recent chats

Start a new one

11 of 18

Editor - European Journal of Educational Research <editor@eu-jer.com>
to me

Tue, Jun 23, 11:00 PM

Dear Dr. Nurkhin,

The reviewers R2611 and R2612 have confirmed your revised paper.

However R2613 has given additional corrections as you can see at the below and at the attached file:

R2613: "I would like to inform that the author(s) has moderately cover the existing issues in the paper. In more detail, it can be seen in the comment in the body text. In addition, academic English is the primary issue in the paper. I have provided an example (changes) in the introduction part (it can be used if applicable) then it can be enhanced by author(s)."

Please do all these corrections and send the finalized paper as soon as possible. We are looking forward to getting your second revised paper.

Best regards,

Ahmet Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

On 22.06.2020 07:31, Ahmad Nurkhin wrote:

Thank you very much.

mail.google.com

Gmail editor@eu-jer.com

UNNES

Compose

Inbox

Starred

Snoozed

Sent

Drafts

More

Meet

New meeting

My meetings

Hangouts

Ahmad

No recent chats

Start a new one

11 of 18

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id>
to Editor

Jun 23, 2020, 11:09 PM

Dear Editor,

Thank you for the information. We will revise the paper as soon as possible.

Best regards,
Ahmad Nurkhin, S.Pd., M.Si.
Department of Economic Education
Faculty of Economics
Universitas Negeri Semarang (UNNES)
<http://blog.unnes.ac.id/nurkhin/>

...

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id>
to Editor

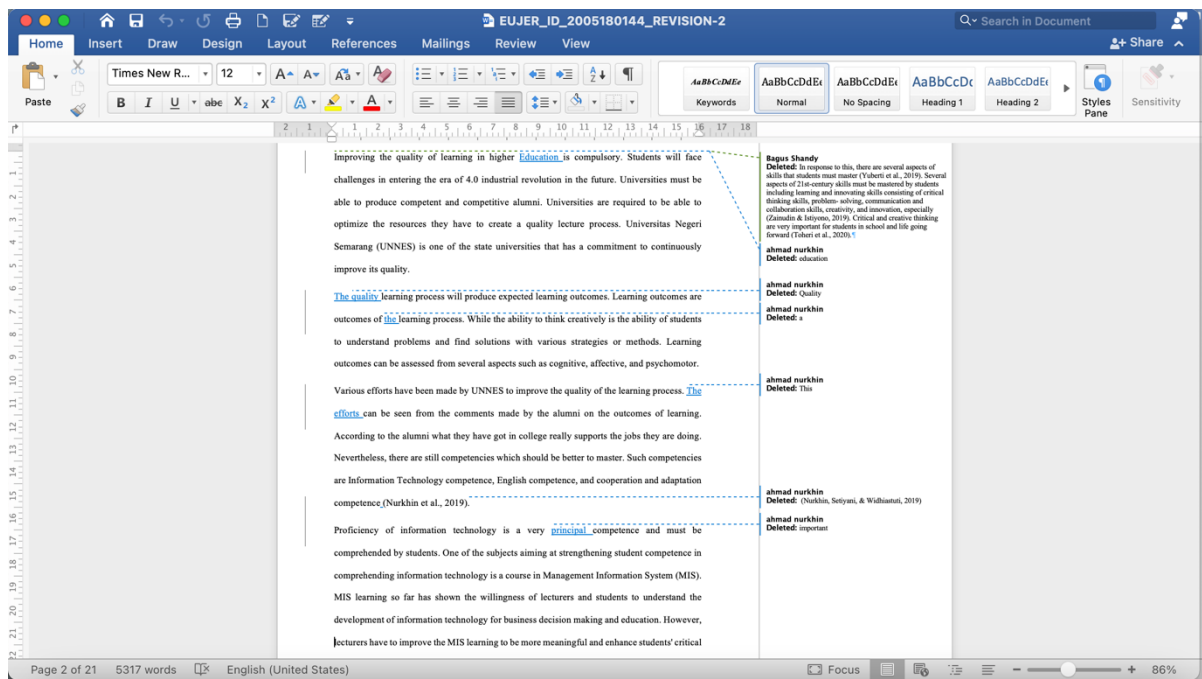
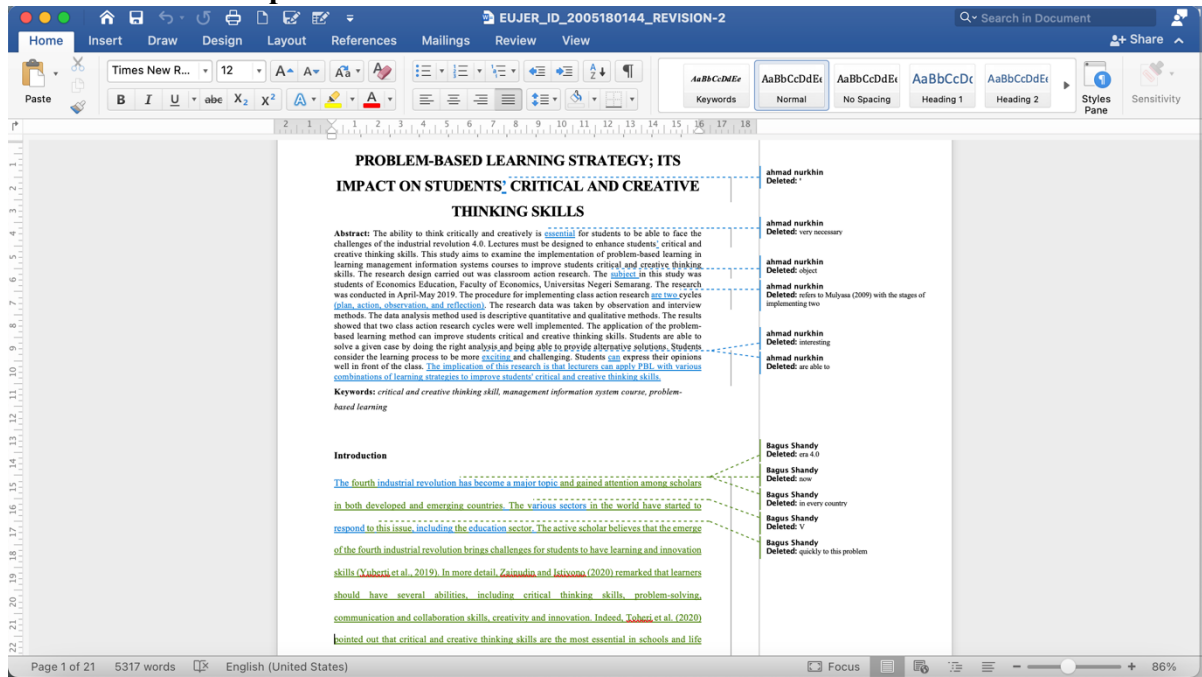
Jun 24, 2020, 7:45 AM

Dear Editor of European Journal of Educational Research,

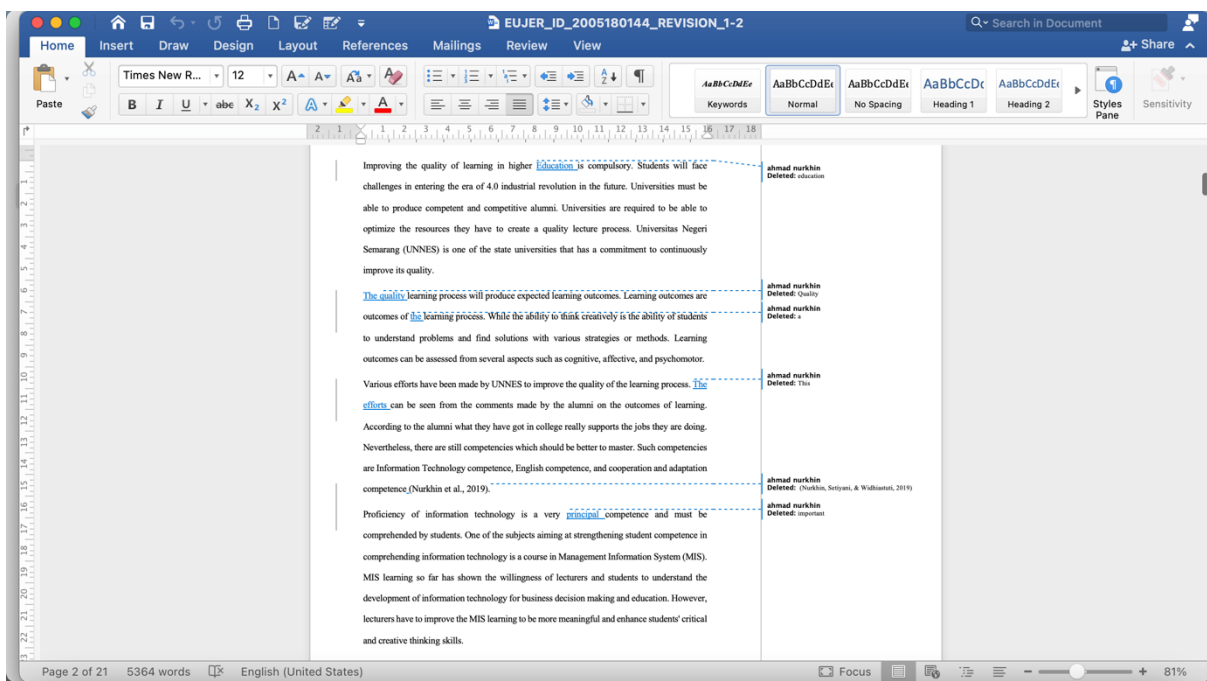
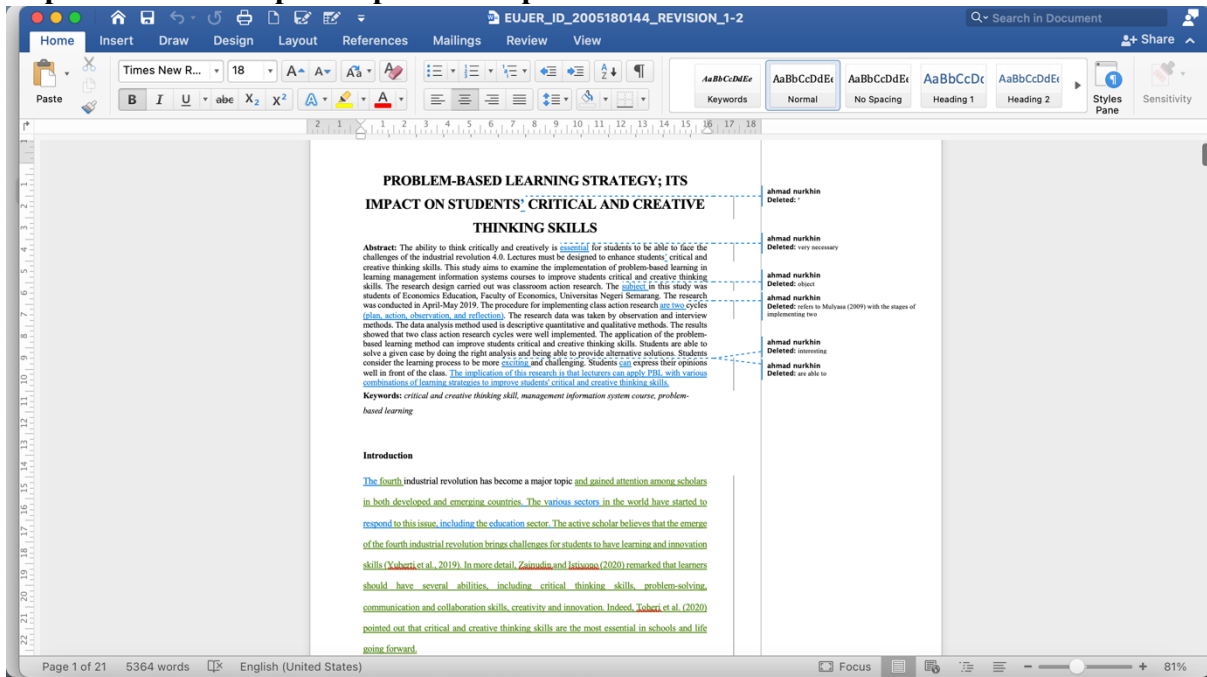
We sent our second revised paper. Thank you.

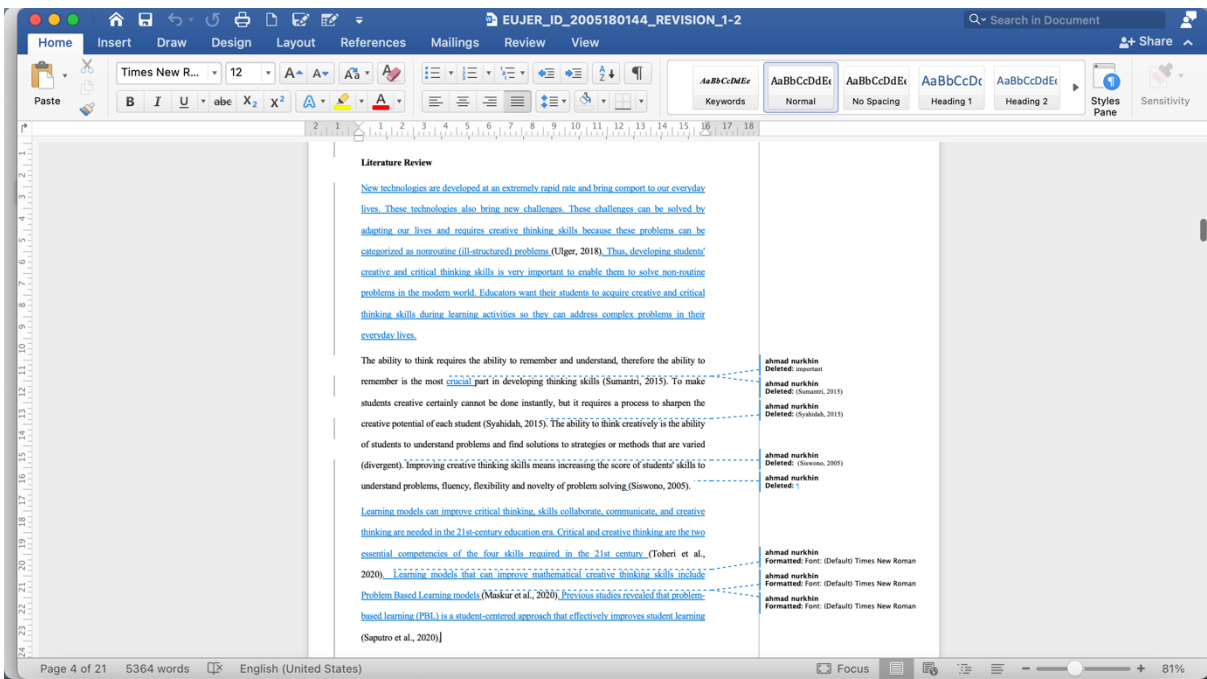
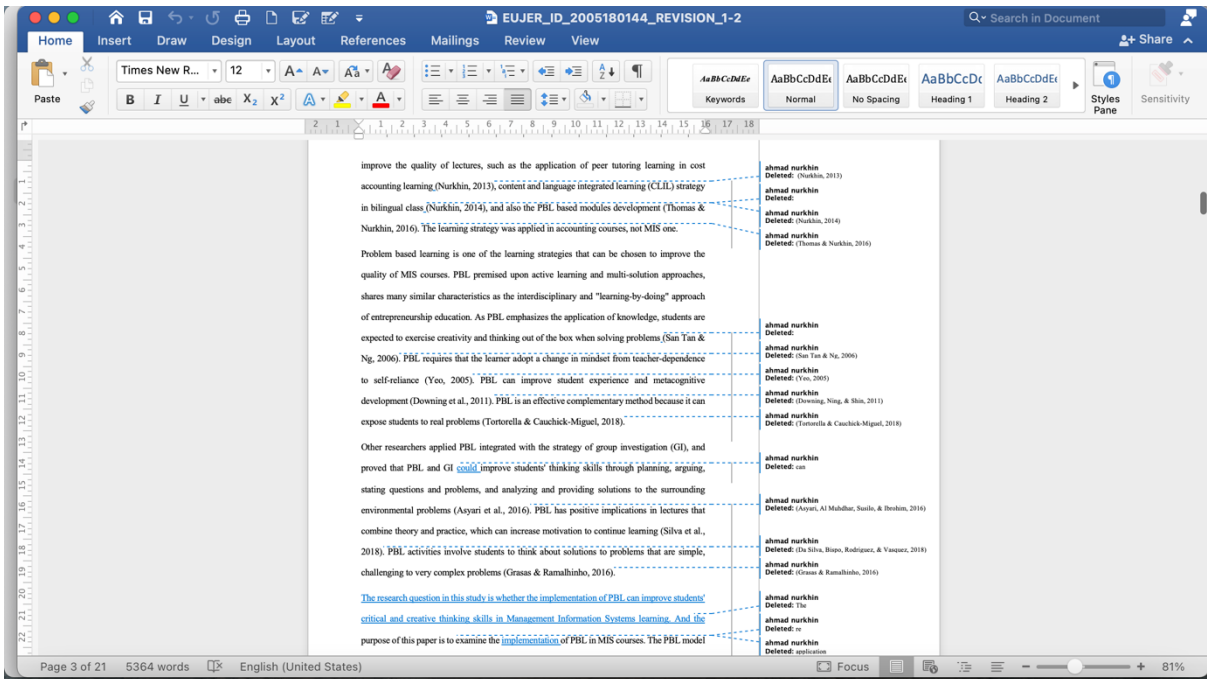
Best regards,
Ahmad Nurkhin, S.Pd., M.Si.
Department of Economic Education
Faculty of Economics

Masukan reviewer pada second round review



Cuplikan Manuskrip hasil perbaikan pada second round review





7. Acceptance Letter for the Manuscript ID# 2005180144

The screenshot shows a Gmail interface with a search bar containing 'editor@eu-jer.com'. The main content is an email titled 'Acceptance Letter for the Manuscript ID# 2005180144' received from 'Editor - European Journal of Educational Research' on Wednesday, June 24, 7:29 PM. The email body contains the following text:

Dear Dr. Ahmad Nurkhin,

Congratulation! After a thorough double-blind review, I am pleased to inform you that your manuscript entitled "PROBLEM-BASED LEARNING STRATEGY: ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" (EU-JER_Manuscript ID# 2005180144) has been accepted. It is scheduled for publication in the Volume 9 Issue 3 of the "European Journal of Educational Research".

We kindly ask you to pay the article processing fee USD 500 and USD 50 transaction fee + tax of our bank (totally USD 550) via bank wire transfer or your credit card. Kindly acknowledge invoice of this acceptance letter. Payment due date: June 29, 2020.

BANK WIRE TRANSFER INFORMATION :
NAME OF BENEFICIARY: Ahmet Cezmi SAVAŞ
ADDRESS OF BENEFICIARY: Degirmicem District Ozgurluk Str. No:32B ,
Zipcode:27090, Gaziantep, TURKEY
PHONE OF BENEFICIARY: +90 (342) 909 61 90
CORRESPONDENT BANK CHARGER: REMITTER
AMOUNT: USD 550
PAYMENT DETAIL: EU-JER_Manuscript ID# 2005180144

The screenshot continues the email content from the previous image, showing the following details:

CORRESPONDENT BANK CHARGER: REMITTER
AMOUNT: USD 550
PAYMENT DETAIL: EU-JER_Manuscript ID# 2005180144
BANK NAME: QNB Finansbank
BANK ADDRESS: Esentepe Mahallesi Büyükdere Caddesi Kristal Kule
Binasi No:215 Şişli - İstanbul
BRANCH OF THE BANK: ENPARA
BRANCH CODE: 3663
ACCOUNT NUMBER: 88177946
IBAN: TR66 0011 1000 0000 0088 1779 46
SWIFT CODE: FNNBTRISXXX

Please send the receipt after payment. Later, we will send the gallery proof of your paper. The galley proofs must be returned to us within 2 calendar days. Furthermore, you are responsible for any error in the published paper due to your oversight.

Thank you very much for submitting your article to the journal of "European Journal of Educational Research". We welcome your contributions in future.

Best regards,
Ahmet Cezmi Savas Ph.D.

Editor, European Journal of Educational Research
<http://www.eu-jer.com>
editor@eu-jer.com

mail.google.com

Gmail editor@eu-jer.com

UNNES

Compose

- Inbox
- Starred
- Snoozed
- Sent
- Drafts
- More

Meet

- New meeting
- My meetings

Hangouts

- Ahmad
- No recent chats

10 of 18

Acceptance Letter ...

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to Kardoyo Jun 24, 2020, 7:30 PM

Acceptance Letter ...

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to Editor Jun 24, 2020, 7:48 PM

Thank you for the information.
We will do the payment as soon as possible.

Thank you.



24th June, 2020

Acceptance Letter for the Manuscript ID# 2005180144

Dear Dr. Ahmad Nurkhin,

Congratulation! After a thorough double-blind review, I am pleased to inform you that your manuscript entitled *"PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS"* (EU-JER_Manuscript ID# 2005180144) has been accepted. It is scheduled for publication in the Volume 9 Issue 3 of the *"European Journal of Educational Research"*.

We kindly ask you to pay the article processing fee USD 500 and USD 50 transaction fee + tax of our bank (totally USD 550) via bank wire transfer or your credit card. Kindly acknowledge invoice of this acceptance letter. Payment due date: **June 29, 2020**.

BANK WIRE TRANSFER INFORMATION :

NAME OF BENEFICIARY:	Ahmet Cezmi SAVAŞ
ADDRESS OF BENEFICIARY:	Degirmicem District Ozgurluk Str. No:32B , Zipcode:27090, Gaziantep, TURKEY
PHONE OF BENEFICIARY:	+90 (342) 909 61 90
CORRESPONDENT BANK CHARGER:	REMITTER
AMOUNT:	USD 550
PAYMENT DETAIL:	EU-JER_Manuscript ID# 2005180144
BANK NAME:	QNB Finansbank
BANK ADDRESS:	Esentepe Mahallesi Büyükdere Caddesi Kristal Kule Binası No:215 Şişli - İstanbul
BRANCH OF THE BANK:	ENPARA
BRANCH CODE:	3663
ACCOUNT NUMBER:	88177946
IBAN:	TR66 0011 1000 0000 0088 1779 46
SWIFT CODE:	FNNBTRISXXX

Please send the receipt after payment. Later, we will send the gallery proof of your paper. The galley proofs must be returned to us within 2 calendar days. Furthermore, you are responsible for any error in the published paper due to your oversight.

Thank you very much for submitting your article to the journal of *"European Journal of Educational Research"*. We welcome your contributions in future.

Best regards,

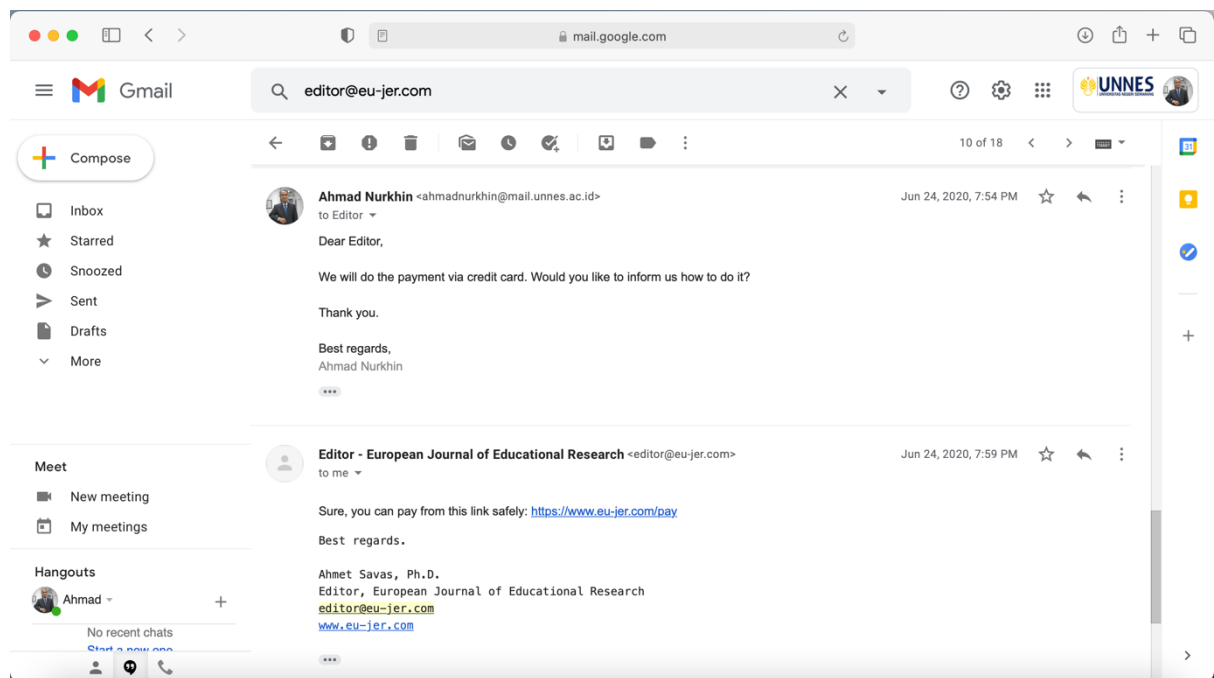
Ahmet Cezmi Savas Ph.D.

AHMET
CEZMI
SAVAŞ

Digitally signed
by AHMET
CEZMI SAVAŞ
Date: 2020.06.24
15:29:16 +03'00'

Editor, European Journal of Educational Research
<http://www.eu-jer.com>
editor@eu-jer.com

8. Payment



The screenshot shows a Gmail inbox with two emails. The first email is from Ahmad Nurkhin to the Editor, dated June 24, 2020, at 7:54 PM. The second email is from the Editor to Ahmad Nurkhin, dated June 24, 2020, at 7:59 PM.

Compose

- Inbox
- Starred
- Snoozed
- Sent
- Drafts
- More

Meet

- New meeting
- My meetings

Hangouts

- Ahmad
- No recent chats
- Start a new one

10 of 18

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to Editor
Jun 24, 2020, 7:54 PM

Dear Editor,

We will do the payment via credit card. Would you like to inform us how to do it?

Thank you.

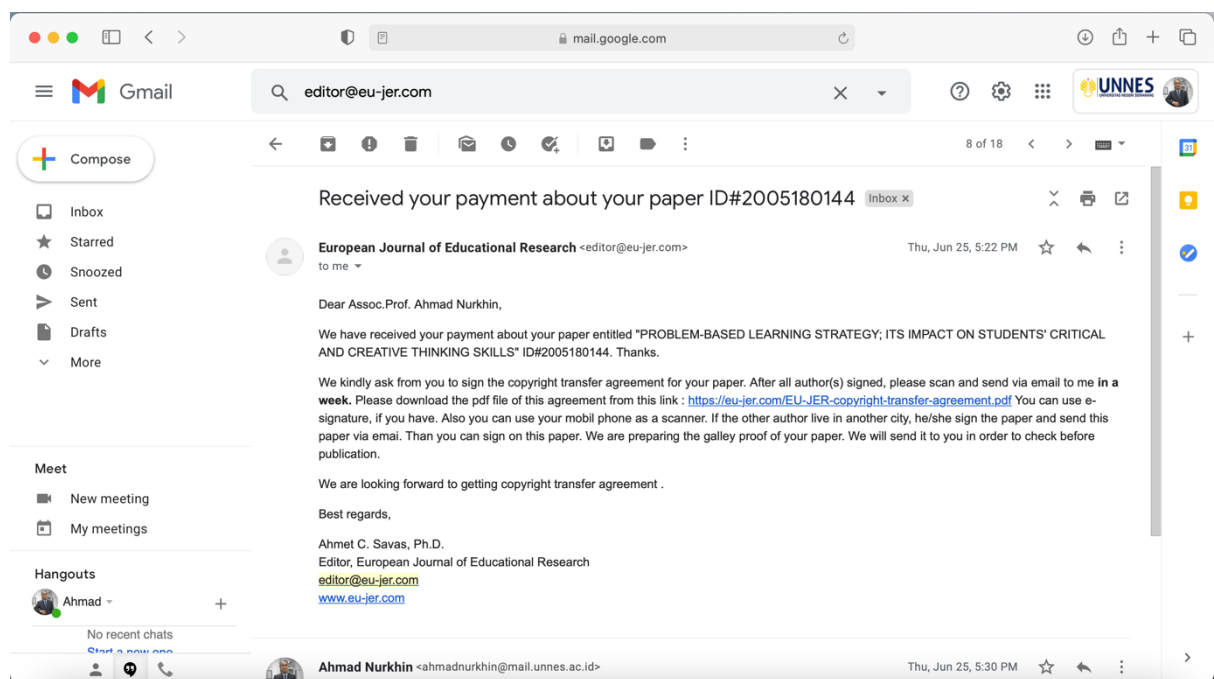
Best regards,
Ahmad Nurkhin

Editor - European Journal of Educational Research <editor@eu-jer.com> to me
Jun 24, 2020, 7:59 PM

Sure, you can pay from this link safely: <https://www.eu-jer.com/pay>

Best regards.

Ahmet Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com



The screenshot shows a Gmail inbox with two emails. The first email is from the European Journal of Educational Research to Ahmad Nurkhin, dated Thursday, June 25, 2020, at 5:22 PM. The second email is from Ahmad Nurkhin to the European Journal of Educational Research, dated Thursday, June 25, 2020, at 5:30 PM.

Compose

- Inbox
- Starred
- Snoozed
- Sent
- Drafts
- More

Meet

- New meeting
- My meetings

Hangouts

- Ahmad
- No recent chats
- Start a new one

8 of 18

Received your payment about your paper ID#2005180144 **Inbox x**

European Journal of Educational Research <editor@eu-jer.com> to me
Thu, Jun 25, 5:22 PM

Dear Assoc.Prof. Ahmad Nurkhin,

We have received your payment about your paper entitled "PROBLEM-BASED LEARNING STRATEGY; ITS IMPACT ON STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS" ID#2005180144. Thanks.

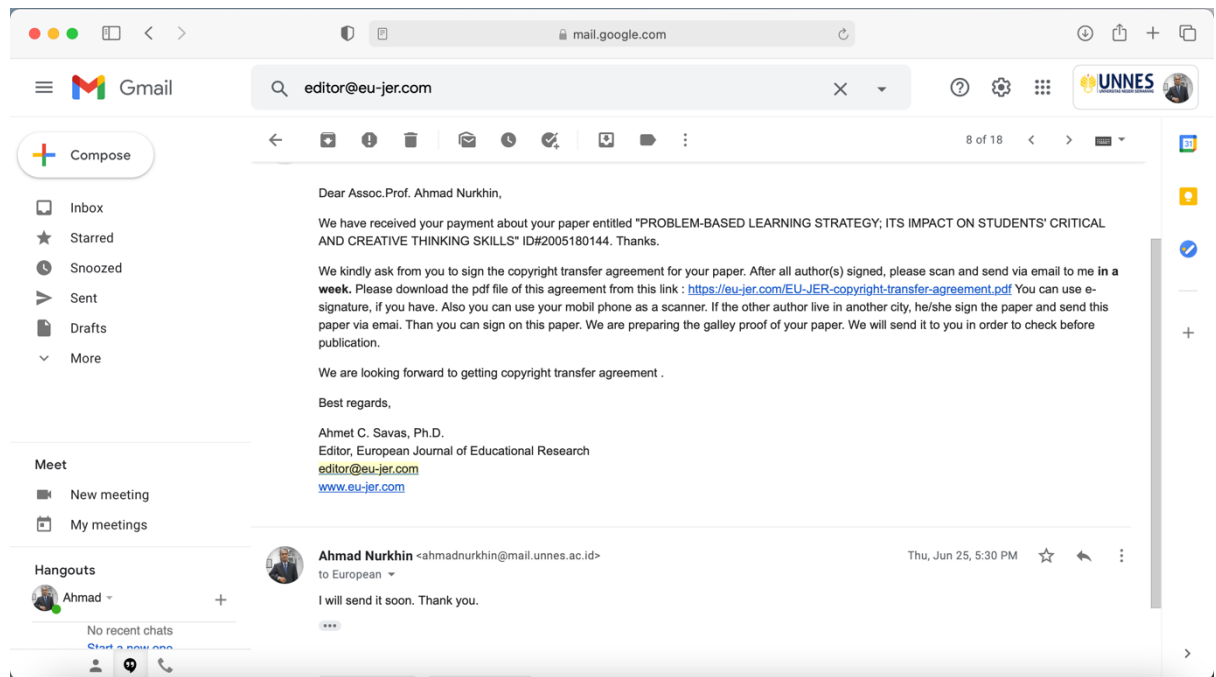
We kindly ask from you to sign the copyright transfer agreement for your paper. After all author(s) signed, please scan and send via email to me in a week. Please download the pdf file of this agreement from this link : <https://eu-jer.com/EU-JER-copyright-transfer-agreement.pdf> You can use e-signature, if you have. Also you can use your mobil phone as a scanner. If the other author live in another city, he/she sign the paper and send this paper via email. Than you can sign on this paper. We are preparing the galley proof of your paper. We will send it to you in order to check before publication.

We are looking forward to getting copyright transfer agreement .

Best regards,

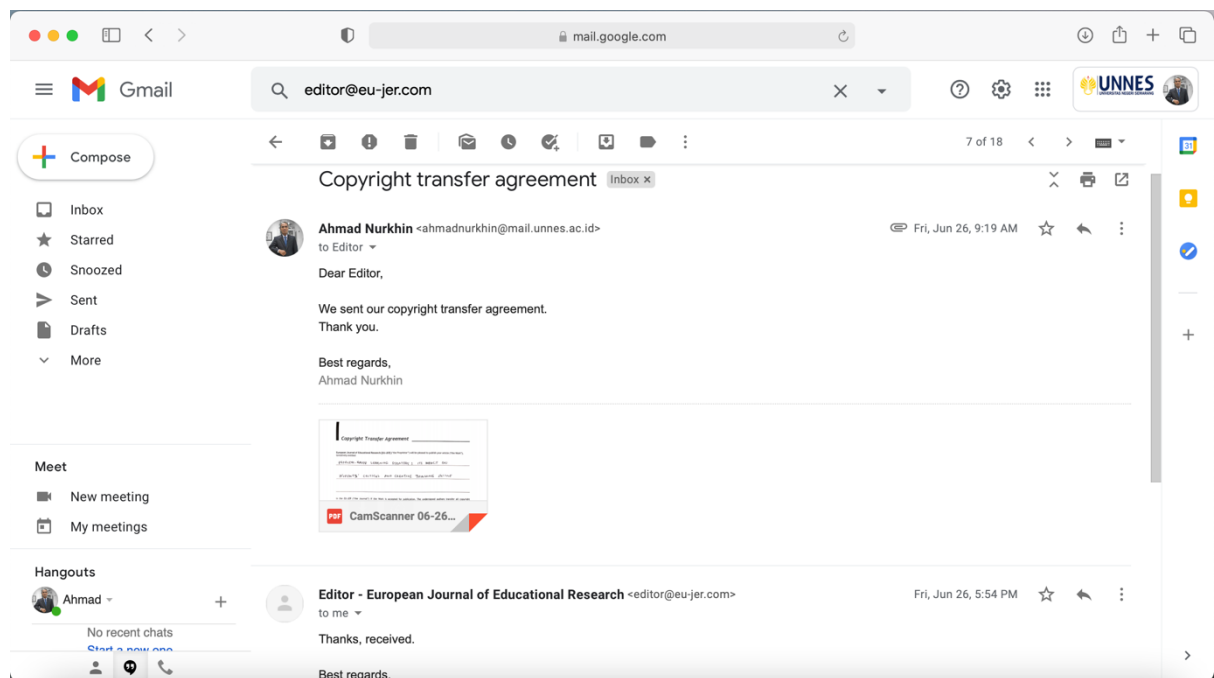
Ahmet C. Savas, Ph.D.
Editor, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com

Ahmad Nurkhin <ahmadnurkhin@mail.unnes.ac.id> to me
Thu, Jun 25, 5:30 PM



	Eurasian Society of Educational Research	Payment Receipt
<p>Your payment of 550,00 USD on http://www.eu-jer.com/ has been approved.</p>		
<p>Payment Approval Date: 25.06.2020 07:48 Transaction Number: P159305970728485153118219720</p>		
<p>Order Summary: - Article Publication Fee</p>		
<p>This payment will appear as PAYTR/EU-JER on your statement. PAYTR is a payment processing company.</p>		
<p>PAYTR never asks for your card information, private information or passwords via email. If you ever receive such an email, do not respond by any means, do not click the links inside the email and do not open or download attachments.</p>		

9. Copyright transfer agreement



Copyright Transfer Agreement

European Journal of Educational Research [EU-JER] ("the Proprietor") will be pleased to publish your article ("the Work"), tentatively entitled

PROBLEM-BASED LEARNING STRATEGY ; ITS IMPACT ON

STUDENTS' CRITICAL AND CREATIVE THINKING SKILLS

in the EU-JER ("the Journal") if the Work is accepted for publication. The undersigned authors transfer all copyright ownership in and relating to the Work, in all forms and media, to the Proprietor in the event that the Work is published. However, this agreement will be null and void if the Work is not published in the Journal.

The undersigned authors warrant that the Work is original, is not under consideration by another journal, and has not been previously published.

(This agreement must be signed by all authors. A photocopy of this form may be used if there are more than 10 authors.)

<u>Rafly KARDOSO</u> Author's name & signature	<u>26/06/2020</u> Date	<u>Ahmad NURKHIN</u> Author's name & signature	<u>26/06/2020</u> Date
<u>MUHSIN</u> Author's name & signature	<u>26-06-2020</u> Date	<u>HENGKY PRAMUSINTO</u> Author's name & signature	<u>26-06-2020</u> Date
_____ Author's name & signature	_____ Date	_____ Author's name & signature	_____ Date

10. The galley proof of your paper (ID#2005180144)

The screenshot shows a Gmail interface with the search bar set to "editor@eu-jer.com". The selected email is from "Editor - European Journal of Educational Research" dated Tuesday, July 7, 10:15 PM. The subject is "the galley proof of your paper (ID#2005180144)". The email content includes a greeting to Dr. Nurkhin, a request to review a galley proof, and a list of four editing instructions: 1) language should be edited by a native speaker; 2) avoid non-English characters; 3) use APA 7 style for references; 4) provide English translations for non-English titles. A sample citation is provided: "Eg. Veziroglu, M., & Gonen, M. (2012). Resimli çocuk kitaplarının MEB Okul Öncesi Eğitim Programı'ndaki kazanımlara uygunluğunun incelenmesi [Review of the eligibility of picture books to the acquisition of the preschool education program of the ministry of national education]. *Education and Science/ Eğitim ve Bilim*, 37(163), 227-237." The email concludes with a 2-day deadline and a sign-off from Ahmet Savas Ph.D., Editor.

The second screenshot shows two follow-up emails from "Ahmad Nurkhin" to the Editor. The first email, dated Wednesday, July 8, 10:51 AM, is a simple "Ok." response. The second email, dated Thursday, July 9, 10:03 AM, is a more detailed message: "Dear Editor of European Journal of Educational Research, We sent our revised paper. please kindly find the attachment. Thank you." It is signed by Ahmad Nurkhin, S.Pd., M.Si., from the Department of Economic Education, Faculty of Economics. An attachment titled "EU-JER_9_3_1141_..." is visible in the email header.

mail.google.com

Gmail editor@eu-jer.com

UNNES

Compose

- Inbox
- Starred
- Snoozed
- Sent
- Drafts
- More

Meet

- New meeting
- My meetings

Hangouts

Ahmad

No recent chats

Editor - European Journal of Educational Research <editor@eu-jer.com>
to me

Jul 9, 2020, 7:37 PM

Dear Dr. Nurkhin,

Thank you for your email. We have updated your paper.

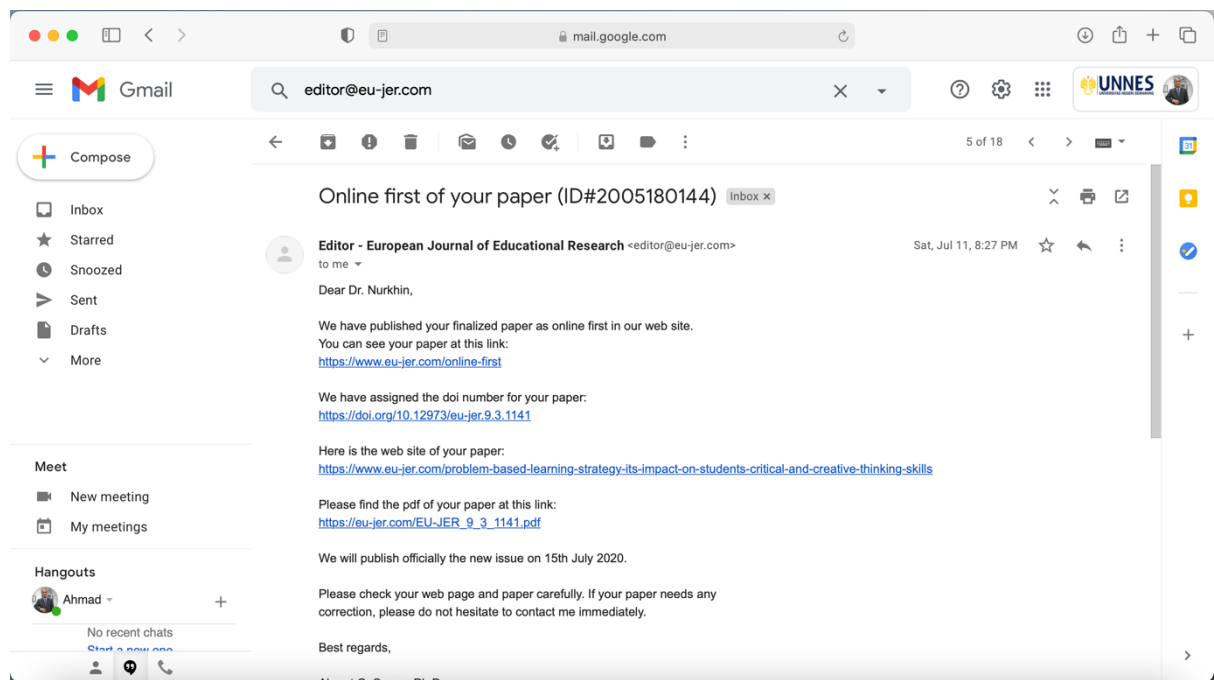
Please find the attached finalized paper will be published.

We will publish it as online first soon.

Best regards,
Ahmet Savas Ph.D.
Editor- European Journal of Educational Research
editor@eu-jer.com

European Journal of Educational Research
Publication Fee Waived for Selected Authors
EU-JER_9_3_1141_...

11. Online first of your paper (ID#2005180144)



The screenshot shows a Gmail interface on a web browser. The search bar at the top contains 'editor@eu-jer.com'. The email title is 'Online first of your paper (ID#2005180144)'. The sender is 'Editor - European Journal of Educational Research <editor@eu-jer.com>' and the recipient is 'me'. The email is dated 'Sat, Jul 11, 8:27 PM'. The content of the email is as follows:

Dear Dr. Nurkhin,

We have published your finalized paper as online first in our web site.
You can see your paper at this link:
<https://www.eu-jer.com/online-first>

We have assigned the doi number for your paper:
<https://doi.org/10.12973/eu-jer.9.3.1141>

Here is the web site of your paper:
<https://www.eu-jer.com/problem-based-learning-strategy-its-impact-on-students-critical-and-creative-thinking-skills>

Please find the pdf of your paper at this link:
https://eu-jer.com/EU-JER_9_3_1141.pdf

We will publish officially the new issue on 15th July 2020.

Please check your web page and paper carefully. If your paper needs any correction, please do not hesitate to contact me immediately.

Best regards,

12. Congratulations! Your paper has just been published!

The screenshot shows a Gmail interface with a search bar containing 'editor@eu-jer.com'. The email subject is 'Congratulations! Your paper has just been published!'. The sender is 'Editor - European Journal of Educational Research <editor@eu-jer.com>'. The email content includes:

Dear Dr. Ahmad Nurkhin,

Congratulations! Your paper has just been published in our new issue (Vol.9, Iss.3; July- 2020): <https://www.eu-jer.com/volume-9-issue-3-july-2020>

The link of your article's web page is: <https://www.eu-jer.com/problem-based-learning-strategy-its-impact-on-students-critical-and-creative-thinking-skills>

The doi number of your article: www.doi.org/10.12973/eu-jer.9.3.1141

You can download your article's full text pdf from this link: www.eu-jer.com/EU-JER_9_3_1141.pdf

By the way, to be appearing in SCOPUS and ERIC database for your article takes several weeks. Because these databases automatically index all articles at certain times of the year.

We have published the valuable articles from 17 countries (Croatia, Egypt, Indonesia, Kazakhstan, Mexico, New Zealand, Oman, Philippines, South Korea, Spain, Thailand, Turkey, UAE, UK, Ukraine, USA, Vietnam).

EU-JER is inviting papers for Volume 9, Issue 4. The online publication date is October 15, 2020. The submission deadline is June 15, 2019. All submissions should be made via EU-JER Manuscript Submission System:

The continuation of the email includes:

You can download your article's full text pdf from this link: www.eu-jer.com/EU-JER_9_3_1141.pdf

By the way, to be appearing in SCOPUS and ERIC database for your article takes several weeks. Because these databases automatically index all articles at certain times of the year.

We have published the valuable articles from 17 countries (Croatia, Egypt, Indonesia, Kazakhstan, Mexico, New Zealand, Oman, Philippines, South Korea, Spain, Thailand, Turkey, UAE, UK, Ukraine, USA, Vietnam).

EU-JER is inviting papers for Volume 9, Issue 4. The online publication date is October 15, 2020. The submission deadline is June 15, 2019. All submissions should be made via EU-JER Manuscript Submission System: <https://www.eu-jer.com/submission>

Thank you for your interest to our journal. We welcome your contribution to our journal in the future.

Please follow us on social media:

- Facebook : <https://www.facebook.com/euro.jer>
- Twitter : https://twitter.com/eu_jer
- Instagram : https://www.instagram.com/eu_jer/
- LinkedId : <https://www.linkedin.com/company/eu-jer/>

Best regards,

Ahmet Savas, Ph.D.

Editor-in-Chief, European Journal of Educational Research
editor@eu-jer.com
www.eu-jer.com



Volume 9 (2020)

Volume 8 (2019)

Volume 7 (2018)

Volume 6 (2017)

Volume 5 (2016)

Volume 4 (2015)

Volume 3 (2014)

Volume 2 (2013)

Volume 1 (2012)

Volume 9 Issue 3 (July 2020), Pages: 1141-1150



Research Article

Problem-Based Learning Strategy: Its Impact on Students' Critical and Creative Thinking Skills

Kardoyo  , Ahmad Nurkhin, Muhsin, Hengky Pramusinto

doi 10.12973/eu-jer.9.3.1141

First Published: July 15, 2020

355 286



FULL TEXT PDF

CITE

Abstract





European Journal of Educational Research

Volume 9, Issue 3, 1141 - 1150.

ISSN: 2165-8714

<http://www.eu-jer.com/>

Problem-Based Learning Strategy: Its Impact on Students' Critical and Creative Thinking Skills

Kardoyo*
Universitas Negeri Semarang,
INDONESIA

Ahmad Nurkhin
Universitas Negeri Semarang,
INDONESIA

Muhsin
Universitas Negeri Semarang,
INDONESIA

Hengky Pramusinto
Universitas Negeri Semarang,
INDONESIA

Received: December 9, 2019 • Revised: January 29, 2020 • Accepted: March 27, 2019

Abstract: The ability to think critically and creatively is essential for students to be able to face the challenges of the industrial revolution 4.0. Lectures must be designed to enhance students' critical and creative thinking skills. This study aims to examine the implementation of problem-based learning in learning management information systems courses to improve students' critical and creative thinking skills. The research design carried out was classroom action research. The subject in this study was students of Economics Education, Faculty of Economics, Universitas Negeri Semarang. The research was conducted in April-May 2019. The procedure for implementing class action research are two cycles (plan, action, observation, and reflection). The research data was taken by observation and interview methods. The data analysis method used is descriptive quantitative and qualitative methods. The results showed that two class action research cycles were well implemented. The application of the problem-based learning method can improve students' critical and creative thinking skills. Students are able to solve a given case by doing the right analysis and being able to provide alternative solutions. Students consider the learning process to be more exciting and challenging. Students can express their opinions well in front of the class. The implication of this research is that lecturers can apply PBL with various combinations of learning strategies to improve students' critical and creative thinking skills.

Keywords: *Critical and creative thinking skill, management information system course, problem-based learning.*

To cite this article: Kardoyo, Nurkhin, A., Muhsin, & Pramusinto, H. (2020). Problem-based learning strategy: its impact on students' critical and creative thinking skills. *European Journal of Educational Research*, 9(3), 1141-1150. <https://doi.org/10.12973/eu-jer.9.3.1141>

Introduction

The fourth industrial revolution has become a major topic and gained attention among scholars in both developed and emerging countries. The various sectors in the world have started to respond to this issue, including the education sector. The active scholar believes that the emerge of the fourth industrial revolution brings challenges for students to have learning and innovation skills (Yuberti et al., 2019). In more detail, Zainudin and Istiyono (2020) remarked that learners should have several abilities, including critical thinking skills, problem-solving, communication and collaboration skills, creativity and innovation. Indeed, Toheri et al. (2020) pointed out that critical and creative thinking skills are the most essential in schools and life going forward.

Improving the quality of learning in higher Education is compulsory. Students will face challenges in entering the era of 4.0 industrial revolution in the future. Universities must be able to produce competent and competitive alumni. Universities are required to be able to optimize the resources they have to create a quality lecture process. Universitas Negeri Semarang (UNNES) is one of the state universities that has a commitment to continuously improve its quality.

The quality learning process will produce expected learning outcomes. Learning outcomes are outcomes of the learning process. While the ability to think creatively is the ability of students to understand problems and find solutions with various strategies or methods. Learning outcomes can be assessed from several aspects such as cognitive, affective, and psychomotor.

Various efforts have been made by UNNES to improve the quality of the learning process. The efforts can be seen from the comments made by the alumni on the outcomes of learning. According to the alumni what they have got in college really supports the jobs they are doing. Nevertheless, there are still competencies which should be better to master.

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