

# Difference Impact of Studying between Hybrid and Online Learning during Pandemic

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**Abstract:** During pandemic, the main focus of health problems has been shifted to Covid-19 by the government since the cases increased every month in 2021. The Covid-19 pandemic has had a major impact on various fields. One of the areas affected by Covid-19 in Indonesia is education, then online learning is carried out. In the current condition, some learning concepts as applied in online learning do not work well in emergency situations like now, besides that an ineffective learning system can result in the delivery of material being difficult to understand, which results in change learning protocol in the school which has been selected by government. Therefore, the simple research will be carried out to the student which the school has been following through the hybrid protocol with the method of questionnaires which pointed out the score of some subject from daily assignment, mid test and final test. The result obtained were 45 students who took the questionnaires with an average score of 86,73 for the hybrid (n=14) while the online (n=31) average value of 87,12.

**Keywords:** Covid-19, Hybrids, Knowledge, Online.

## 1. Introduction

The Covid-19 pandemic has become the main focus of health problems by the government since cases have increased every month in 2021. The impact of this pandemic has spread rapidly to various regions [1]. This has made the government implement policies in an emergency situation of the Covid-19 pandemic, where the number of cases continues to grow, although on the way it creates new problems for the community, especially students and implements social distancing. The Covid-19 pandemic has had a major impact on various fields [2] including education [3]. Then online learning was carried out based on a letter from the Minister of Education and Culture Number 36962/MPK.A/HK/2020 dated March 17, 2020 regarding Online Learning and Working from Home in the context of preventing the spread of Corona Virus Disease (COVID-19) [4].

This implementation isn't optimally considered and prepared among educators to adapt to the digital climate [5]. Almost all schools apply the method of giving assignments online to students. In current conditions, some learning concepts as applied in online learning do not work well in emergency situations like now [5]. In addition, an ineffective learning system can result in the delivery of material being difficult to understand [6]. Therefore, the government change some rule to implement the hybrid protocol in the school.

## 2. Aim of the study

The aim of this paper is to study research related to the difference impact of hybrid and online learning during study.

## 3. Hybrid Learning and Online Learning

Hybrid learning offers to provide more intimating learning possibilities to students by combining online learning and face to face. Hybrid learning is an instructional method that includes the opportunities of the classical learning activity in classroom with the digitally enhanced learning possibilities of the online mode of delivery in the web [7]. Online interactions in hybrid learning can be completed either synchronously using real time meeting sessions such as using zoom or asynchronously where students interact at different times such as using saved video [8]. There are many benefits of hybrid learning for student such as an opportunity to seek clarification or response to their innovative questions and conversations in their classroom [9]. Students who value classical teaching, in-person class discussions, and organic bonding between students may not enjoy online learning [10]. It decreases the learning motivation, loses in building sense of community, and provides less encouragement to students [10], [11].

## 4. Method

The method of the research will be given in questionnaire in form of link which is describing the score of their daily assignment, mid test and final test in December 2021 correlating to webinar in module covid in faculty. After getting the data from link, the data is entered and processed for getting the average score from the hybrid learning and the online learning and compared each of them.

## 5. Result and Findings

Questionnaire will be given from the link at the end of the December where the junior high school students know some of their score. The door-prize will be given for the first whichever fill the form first. The questionnaire is followed by 45 students from Surabaya who have been through the first semester using hybrid (n=14) or only online (n=31) learning which is categorized by score in the form of the table below this.

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Table 1  
Frequencies of students with score in daily assignment 1

Score	Hybrid Learning (n=14)	Online Learning (n=31)
< 80	0	2
80-85	9	22
86-90	5	6
91-95	0	1
96-100	0	0
Total	14	31
Average	84,64285714	82,51612903

From table 1 above, it can be explained that this questionnaire was filled by 45 students who have taken the hybrid learning (n=14) and online learning (n=31). The average daily assignment 1 result in the hybrid learning (n=14) is 84,64 while the average online learning (n=31) is 82,51. It can be concluded that after the student participated in the hybrid learning there was an increase in understanding of getting the knowledge with different of 2,13. Thus it can be said that this hybrid learning is able to increase students insight in motivation and communication rather than during online learning. So that hybrid learning like this can be held in the future with more serious protocol implementation.

Table 2  
Frequencies of students with score in daily assignment 2

Score	Hybrid Learning (n=14)	Online Learning (n=31)
< 80	0	0
80-85	0	1
86-90	1	1
91-95	9	6
96-100	4	23
Total	14	31
Average	93,85714286	95,96774194

From table 2 above, it can be explained that this questionnaire was filled by 45 students who have taken the hybrid learning (n=14) and online learning (n=31). The average daily assignment 2 result in the hybrid learning (n=14) is 93,86 while the average online learning (n=31) is 95,97. It can be concluded that after the student participated in the hybrid learning there was an increase in understanding of getting the knowledge with different of 2,12 less than online learning. However, with the student competition in getting achievement or motivation in studying for the student who learns with hybrid learning.

Table 3  
Frequencies of students with score in daily assignment 3

Score	Hybrid Learning (n=14)	Online Learning (n=31)
< 80	3	5
80-85	1	4
86-90	6	2
91-95	3	10
96-100	1	10
Total	14	31
Average	85,21428571	89,19354839

From table 3 above, it can be explained that this questionnaire was filled by 45 students who have taken the hybrid learning (n=14) and online learning (n=31). The average daily assignment 3 result in the hybrid learning (n=14) is 85,21 while the average online learning (n=31) is 89,19. It can be

concluded that after the student participated in the hybrid learning there was an increase in understanding of getting the knowledge with different of 3,92 less than online learning. However, with the student competition in getting achievement or motivation in studying for the student who learns with hybrid learning.

Table 4  
Frequencies of students with score in mid-term test

Score	Hybrid Learning (n=14)	Online Learning (n=31)
< 80	1	2
80-85	4	18
86-90	3	6
91-95	2	4
96-100	4	1
Total	14	31
Average	88,42857143	84,38709677

From table 4 above, it can be explained that this questionnaire was filled by 45 students who have taken the hybrid learning (n=14) and online learning (n=31). The average mid-term test result in the hybrid learning (n=14) is 88,43 while the average online learning (n=31) is 84,39. It can be concluded that after the student participated in the hybrid learning there was an increase in understanding of getting the knowledge with different of 4,04. Thus, it can be said that this hybrid learning is able to increase students insight in motivation and communication rather than during online learning. So that hybrid learning like this can be held in the future with more serious protocol implementation.

Table 5  
Frequencies of students with score in final-term test

Score	Hybrid Learning (n=14)	Online Learning (n=31)
< 80	4	5
80-85	9	14
86-90	1	12
91-95	0	0
96-100	0	0
Total	14	31
Average	81,50	83,51612903

From table 5 above, it can be explained that this questionnaire was filled by 45 students who have taken the hybrid learning (n=14) and online learning (n=31). The average final-term test result in the hybrid learning (n=14) is 81,5 while the average online learning (n=31) is 83,52. It can be concluded that after the student participated in the hybrid learning there was an increase in understanding of getting the knowledge with different of 2,02 less than online learning. However, with the student competition in getting achievement or motivation in studying for the student who learns with hybrid learning.

Table 6  
Average score between hybrid learning and online learning

Score	Hybrid Learning (n=14)	Online Learning (n=31)
Daily Assignment 1	84,64	82,51
Daily Assignment 2	93,86	95,97
Mid-term Test	88,43	84,39
Daily Assignment 3	85,21	89,19
Final-term Test	81,50	83,52
Average	86,728	87,116

From table 6 above, it can be explained that this questionnaire was filled by 45 students who have taken the hybrid learning (n=14) and online learning (n=31). The average daily assignment 1 result in the hybrid learning (n=14) is 86,71 while the average online learning (n=31) is 87,12. It can be concluded that after the student participated in the hybrid learning there was an increase in understanding of getting the knowledge with different average of 0,51. However, with the student competition in getting achievement or motivation in studying for the student who learns with hybrid learning.

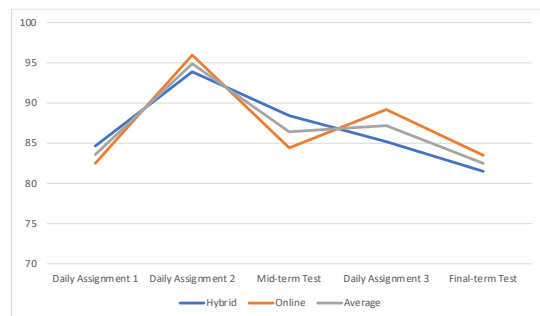


Fig. 1. The chronological studying time period with the average score in junior high school

Based on the results of the hybrid learning (n=14) and online learning (n=31), it can be seen that after being given information about how important hybrid learning, there was difference in score of hybrids learning with an average of more than 0.51 even though there was some decrease in score because of student competitiveness. Score is one of the interpretations of receiving information that influence knowledge [12]. With increased knowledge, it is hoped that students will be able to practice it in everyday life and even teach it to other family members or friends so that students can take steps to avoid stress and boredom when facing problems so that with controlled conditions, it is hoped that students can make good decisions and actions in solving problems. solve every problem it faces. Knowledge is one of the factors that can make decisions and actions to be taken. Having wider knowledge will support individual emotional self-control and be able to find more achievement [13].

## 6. Conclusion

The questionnaire that has been carried out has received a

good response and integrity from the students, as evidenced by the number who have filled the questionnaire, reaching 45 students. The enthusiasm of students in participating in this questionnaire has a very large influence on increasing insight about hybrid learning and online learning from home during the pandemic which is carried out online, as evidenced by the difference average in score of 0.51. Thus, the continuation of the hybrid learning needs to be carried out with further some consideration so that it can increase students' competence and insight.

## References

- [1] Alfaray, R. I., Yodianto, L., Fauzia, K. A., Armyta, D. N., Annisa, Y., & Rezkitha, A., "Correlation Between Knowledge of the City of Residence and Covid19 on Youth Generations in Surabaya", *Journal of Public Services*. 2021.
- [2] Solviana, M. D., "Pemanfaatan Teknologi Pendidikan di Masa Pandemi Covid-19: Penggunaan Fitur Gamifikasi Daring di Universitas Muhammadiyah Pringsewu Lampung", *Journal of Biology Education Research*, vol. 1, no. 1, pp. 1– 14. 2020.
- [3] M Ardi Sulata & Abdul Aziz Hakim., "Gambaran Perkuliahan Daring Mahasiswa Ilmu Keolahragaan UNESA Di Masa Pandemi Covid-19", *Jurnal Kesehatan Olahraga*, vol. 8, no. 3, pp. 147–156. 2020.
- [4] Kemendikbud., *Surat Edaran Direktorat Jenderal Pendidikan Tinggi: Masa Belajar Penyelenggaraan Program Pendidikan*. 2020. Accessed from <https://bersamahadapikورونا.kemdikbud.go.id/surat-edaran-direktorat-jenderal-pendidikan-tinggi-masa-belajar-penyelenggaraan-program-pendidikan/>
- [5] Charismiadjji., "Hubungan Regulasi Emosi dengan Stress Akademik pada Mahasiswa Baru". 2020.
- [6] Vitasari, Ita., "Kejenuhan (Burnout) Belajardi Tinjau dari Tingkat Kesepian dan Kontrol Diri pada Siswa Kelas XI SMA Negeri 9 Yogyakarta". 2016.
- [7] Dziuban, C. D., Hartman, J. L., Moskal, P. D., "Blended learning", *EDUCAUSE Research Bulletin*, vol. 7, pp. 1–12. 2004.
- [8] Siegelman, A., *Blended, hybrid, and flipped courses: What's the difference?* 2019. <https://teaching.temple.edu/edvice-exchange/2019/11/blended-hybrid-and-flipped-courses-what%E2%80%99s-difference>
- [9] Paul, J., Jefferson, F., "A comparative analysis of student performance in an online vs. face-to-face environmental science course from 2009 to 2016", *Frontiers in Computers Science*. 2019.
- [10] Roval, A. P., Jordan, H. M., "Blended learning and sense of community: A comparative analysis with traditional and fully online graduate courses", *Int. Rev. Res. Open Dist. Learn*, vol. 5, no. 2. 2004.
- [11] Kemp, N., Grieve, R., "Face-to-face or face-to-screen? undergraduates' opinions and test performance in classroom vs. online learning", *Front. Psychol*, vol. 5, pp. 1278. 2014.
- [12] Budiman dan Riyanto, A., "Kapita Selekta Kuesioner Pengetahuan dan Sikap dalam Penelitian Kesehatan", *Salemba Medika*. 2014.
- [13] Peilouw, Florence J., & Nursalim, M., "Hubungan Antara Pengambilan Keputusan dengan Kematangan Emosi dan Self-Efficacy Pada Remaja", *Journal Penelitian Psikologi*. 2013.