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VIRTUAL SYMPOSIUM ON TEACHING & LEARNING (VSTL) 2020

Redefining the Practice of Teaching and Learning

E-PROCEEDING

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INTRODUCTION

The very first Virtual Symposium on Teaching and Learning 2020 has been organised by the Academy of Language Studies, UiTM Cawangan Johor Kampus Pasir Gudang in collaboration with Unit Penulisan dan Penerbitan, BPJIA UiTM Cawangan Johor Kampus Pasir Gudang.

This symposium has provided an opportunity for researchers and educators to share their ideas and insights in the name of education. This symposium has also provided a platform for the exchange of knowledge and expertise in relevant fields and promoted exploration of potential collaboration for future research.

This event has the goal to bring academicians and researchers in education together from across the globe.

Researchers and authors have been invited to submit original high-quality extended abstracts. Papers are solicited on, but not limited to:

a. E-Learning

b. Innovation and Creativity in Teaching and Learning

c. Assessment and Evaluation in Teaching and Learning

d. Best Practices in Teaching and Learning

e. Others (related to Teaching and Learning)

All accepted extended abstracts have been presented by participants on the symposium day via Google Meet.

All accepted, registered and presented extended abstracts have been published in this e-proceeding with e-ISBN. Authors of selected extended abstracts will be invited after the symposium to submit a full paper for Scopus-indexed Journals/ a special issue in the Insight Journal UiTM Cawangan Johor. Best Papers and Best Presentations have also been awarded in this event.

FOREWORD BY ASSISTANT RECTOR



Dr. Haryana binti Mohd Hairi

Assistant Rector, UiTM Pasir Gudang

Assalamualaikum wbt and good day everyone.

I am pleased to welcome all of you to the Virtual Symposium on Teaching and Learning, VSTL, 2020. Congratulations for your participation, fruitful sharing session and discussion for the symposium.

Today, we have witnessed educators across institutions, disciplines and expertise, coming together to share the insights, experience, and practices in teaching and learning. I bet that everyone has had your fair share of not only getting inputs and ideas from others, but also share your own perspectives in the field of teaching and learning.

Ladies and gentlemen,

VSTL 2020 is one of the many virtual academic get-togethers, which could have been organized in the conventional way, with face-to-face meetings and sessions. However, considering the many aspects in our current situation, with the seemingly unending COVID-19 fiasco, this symposium is successfully done on a virtual platform today without neglecting the ultimate purpose of such programs. I believe that all of us today have gained so many positive inputs for various aspects in teaching and learning even without physically meeting each other, which is no less than if the program is done conventionally.

It is high time that such an event took place to highlight the remarkable contribution, in which “the new norm” of teaching and learning took place in our current education situation. I am proud to know that, through a glance at the list of presentations planned for today, reveals the amazing diversity of these areas. Congratulations to all of you.

COVID-19 pandemic has not only changed our way of teaching and learning, but also forced us to become more creative and innovative. In some cases, we could not meet our students face to face, and had to use virtual methods, as how we met today to carry out our duty as teachers and educators. This can be easy for some of us, but a mounting task for others. However, the responsibility of educating our learners still needs to be carried out, in one way or the other, no matter how challenging it is. Thus, the purpose of this symposium is for us to

not only share the traditional practices but also new methods and techniques in online or distance learning.

I hope that VSTL 2020 has been a good platform to inspire us, the educators to try out new teaching techniques and the experts to share their insight and valuable knowledge in this area. This could also be the route to a unique opportunity to share and exchange with counterparts from different specialties the advancements in your field. I also hope that our meeting will not stop today and can promote exploration of potential collaboration for future research.

Ladies and gentlemen,

On behalf of the committees and UiTM Cawangan Johor, I would like to thank all of you for your support and I hope that you have had fruitful and rewarding exchanges from this program. I would like to also congratulate the Academy of Language Studies, UiTM Cawangan Johor, Kampus Pasir Gudang for organizing the symposium, together with Unit Penulisan dan Penerbitan of BPJIA, UiTM Cawangan Johor Kampus Pasir Gudang. It is my hope to see more programs such as this in the future.

Before I end my speech, I would like to share a quote by Phil Collins;

“In learning you will teach, and in teaching you will learn”. May all of us here never stop learning, and continue inspiring the learners, and each other in our jihad to share and value the knowledge that we have.

I hereby officiate the closing ceremony and announcement of awards of Virtual Symposium on Teaching and Learning 2020.

All the best to everyone, and may all our effort be blessed. Thank you.

VSTL23

Analysing Student's Experience of Using A Digital Notebook in Learning Physics

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Abstract

Recent technological developments have led to the prominence of online education as an alternative to traditional classroom teaching. Due to the current health crisis happening around the world, online teaching and learning have been implemented at a national scale among students and academic staff, at all educational levels. This research paper aims to demonstrate the student's learning experience by using digital notebook, particularly Microsoft One note in monitoring and managing their online learning in Physics subject. As some students encountered difficulties to accommodate the online teaching and new learning environment especially in understanding Physics course, employing a digital notebook is essential to ensure all students acquire systematic information and able to monitor their performance. A total of 30 Foundation students were required to use this digital notebook for 12 weeks (one semester) as an interactive platform to share, collaborate, and discuss the coursework efficiently and engagingly. Students' reflections through an online survey was conducted and analyzed by using Co-occurrences Analysis. The result of the analysis revealed that the students appreciate the usage of this platform as it is convenient, effective, informative, and systematic. Hence, this digital notebook appears as an effective tool to encounter the challenges in terms of students' collaboration, flexibility, accessibility, and interactivity.

Introduction

Currently, online teaching has become an attractive feature for knowledge delivery, particularly in higher education. Studies revealed that students have positive perceptions and better engagement towards online teaching and learning courses as compared to conventional learning (Popovici & Mironov, 2015). This is due to the new technologies such as computer graphics, virtual reality and virtual worlds, they continue to play an important role in the development and expansion of online education. Over the years, numerous efforts have been done to incorporate internet technologies into the teaching and learning process in higher education (Mansor & Ismail, 2012). With the current health crisis happening around the world that causes a huge impact on global education, the implementation of fully online education is inevitable, and it provides an exceptional opportunity for researchers to assess students' responses towards this transition.

Even though fundamental knowledge can be easily transmitted via online lectures and webinars, engaging students, and keeping track of their performance on the other side could be more challenging. Despite students' acceptance and acknowledge of the benefits of online learning, the idea of self-learning could be overwhelmed by some students, particularly isolated students (Gillett-Swan, 2017). Some of them are struggling to catch up with their studies and some face difficulties in giving full participation during online classes due to the poor internet connection (Liang & Chen, 2012). Furthermore, when it comes to subject involving theories and calculation such as Physics where it requires constant feedback through problems solving questions from students, the learning process could be daunting. Fortunately, the accessibility and ease of access to recorded online teaching videos make it easier for students to do their revision at their own pace.

Additionally, the usage of digital notebook such as Microsoft One note application appears as an effective online tool to monitor students' progress, hence, as a medium for them to manage their study. A digital notebook is a convenient and practical online tool as it allows students and the instructors to share, collaborate, discuss and interact with one another efficiently in a more engaging way. In terms of accessibility, One note is easy to be accessed using Microsoft account or institution's account. Particularly, instructors can share the lecture summary, problem solving questions, coursework marks, files, online videos and images instantly in a more interactive way. Apart from that, students can also

write and share notes, view and submit homework and do revision as all the information can be easily accessed within one platform. This is certainly convenient for the instructor as it removes the hassle in reviewing and checking the work submission from students on different applications.

The objective of this paper is to analyze and demonstrate students' learning experience using a digital notebook particularly Microsoft One note in monitoring and managing their online learning in Physics subject.

Methodology

The sample of this research involved 30 Foundation students in Engineering and Science who registered for Physics II. The research tool used in this study was Microsoft One note as a platform for students to revise, share, solve, write, and collaborate their works in Physics subject. This platform was utilized for one semester which is equivalent to 12 weeks. An online survey on their experience in using this platform was given at the end of the 12th week. The questionnaire consisted of four questions which pointed out their experience, benefits, challenges and future improvement in using this platform for learning Physics in an organized and engaging way.

Results and Discussion

a. Experience

The first question is about their experience in using Microsoft One Note as their workbook. The students were required to describe their learning experience in three words. Figure 1 shows the most common words given by the students where most of them agreed that this platform is easy to be used, organized and convenient for them to access to the materials. This is true as students were able to download the application in their smartphone and get easily accessed to it.



Figure 1: Most frequent words describing students' experience in using Microsoft One Note as a digital notebook.

b. Benefits

The second question focuses on the usefulness of this platform for students in learning Physics. Table 1 depicts some of the comments from the students. Majority of them concluded that this platform has greatly assisted them in understanding the concept clearly. The sections in the digital notebook such as lecture summary, questions together with the answers, links for videos, simulations and additional resources for each chapter allow them to easily find and view the information for revision.

Table 1: Emergence theme based on the students' experience on the effectiveness and benefits of a digital notebook.

Emergence Theme	Comments from students
Improve understanding of Physics concepts clearly	*"In every way I think because doing exercises in one note help me to have double understanding of the concept and how to use the formula as well as assisting me in doing the tutorial. I always do the one note exercise first before doing the tutorial as my lab sessions come first. By having the exercise in one note as well as the summary, it helps me a lot in rewind back all the content of the chapter which make it thousand times easier to be accessed."*
Lecture summary and Questions & Answer sections	*"The "shared section" with lecturer really does help. We can review the answers for questions immediately & lecture summary helped in connecting the main idea of the topic with its branches."* *It is an awesome platform for us to record our works so that we can refer to the works that we uploaded easily without flipping here and there.*

c. Challenges

The third question highlights the challenges encountered by the students while using this platform. The challenges are based on different aspects that were pointed out by the students which are shown in Figure 2. Some of them found it difficult to access the application due to their poor internet connection. For the platform itself, there is a possibility of information to be erased by other students. This is applicable only for the section where students are able to view and edit the content. Some students proclaimed that they always forget to check the updates as there is no notification shown on their computer and smartphones' screen or email as a reminder. However, the students who check the platform frequently noticed that the section tab turned to a bold letter whenever there was an update. Other than that, few students felt that it was quite troublesome to scan and upload the answers and did the editing on a computer without using a tablet.

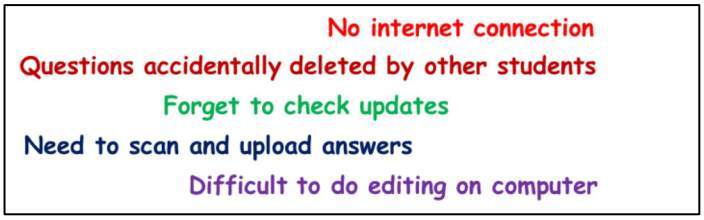


Figure 2: Issues pinpointed by students.

d. Future improvement

Lastly, this question emphasizes on the future improvements and recommendations. The result is displayed in Table 2 where all students acknowledged the effectiveness of digital notebook and anticipated to use it more often in future. In terms of contents and materials, the students were expecting to have more questions, extra notes, and resources being provided in the platform and also as a medium to share important news for the assessments.

Table 2: Emergence theme based on students' future recommendations.

Emergence theme	Comments from students
Digital notebook as students' workbook	Keep using it
	"Yup~ one note it's good to be used especially when online learning completely like this sem."
	"It is usable for teaching and studying and hope to see it used more often in the future."
	"it is a good app to help the students interact with lecture instead of whatsapp."
Content	*"More examples & applications of the topic learnt, to facilitate in understanding the topic."*
	"Using one note as a medium to share news or important things like quiz or test dates."
	"Sharing of links to additional videos regarding topics discussed."

Conclusion

Online learning in university has become more intense due to the current health issues. The vast changes in terms of technological applications can be seen around the world to cater and educate students with different backgrounds, ages and needs. The existence of various platforms for both instructors and students to communicate has greatly facilitate the online process even though it can be quite intense sometimes. This paper is highlighting the experience of foundation students in UTP on the usage of Microsoft One note as a digital notebook to learn Physic subject. Overall, the students felt that this platform has enhanced their understanding of the concepts through simple yet attractive visualization of the lecture materials. Moreover, this platform is easy and convenient to be used as they can get all the information about their Physics course within a single platform.

References

Gillett-Swan, J. (2017). The Challenges of Online Learning: Supporting and Engaging the Isolated Learner. *Journal of Learning Design, 10*, 20. doi:10.5204/jld. v9i3.293

Liang, R., & Chen, D.-T. V. (2012). Online Learning: Trends, Potential and Challenges. *Creative Education, 03*(08), 1332-1335. doi:10.4236/ce.2012.38195

Mansor, M. S. A., & Ismail, A. (2012). Learning Styles and Perception of Engineering Students Towards Online Learning. *Procedia - Social and Behavioral Sciences, 69*, 669-674. doi: 10.1016/j.sbspro.2012.11.459

Popovici, A., & Mironov, C. (2015). Students' Perception on Using eLearning Technologies. *Procedia - Social and Behavioral Sciences, 180*, 1514-1519. doi: 10.1016/j.sbspro.2015.02.300