E-LEARNING: PERCEPTION OF THE ACCEPTANCE, ACCESSIBILITY AND COST SAVINGS AMONGST UNIVERSITY STUDENTS

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Abstract

The evolution and the internationalization of education system, has made the learning process easier and flexible. Over the past few years, E-Learning has evolved with demand from an increasing number of countries that transform the academic policy in order to produce highly educated community. Electronic learning (E-Learning) is learning utilizing electronic technologies to access educational curriculum outside of a traditional classroom. In most cases it refers to a course or program or degree delivered completely online. To be competitive and cost efficient, higher learning institutions are struggling to adapt an E-Learning approach. As such E-Learning has struggled to find acceptance in academic circles. Thus, this study aims to explore the effectiveness of online learning from three dimensions which are acceptance, accessibility and the cost savings. This study recruited 315 university students through random sampling. Data were collected through survey. The respondents were asked for consent before proceeding to the survey in order to ensure that ethical consideration was taken into account during conducting the study. Data were analysed using descriptive analysis, Pearson correlation and regression analysis. Results indicate that there was a significant relationship between E-Learning and the acceptance, while it was different for the accessibility and cost savings. The result also found that acceptance is the most important factor that contributes to the effectiveness of online learning with a value of $\beta = 0.982$. In conclusion, it is time to improve the E-Learning system through access to mobiles and moving towards a new educational paradigm called ‘M-Learning’.

Keywords: E-learning, acceptance, accessibility, cost saving

1. INTRODUCTION

The evolution and the internationalization of education system, has made the learning process easier and flexible. Over the past few years, E-Learning has evolved with demand from an increasing number of countries that rely on Internet services. E-Learning can be a factor in changing the environment from brick to click. E-Learning is learning utilizing electronic technologies to access educational curriculum outside of a traditional classroom. In most cases, it refers to a course, program or degree delivered completely online. E-
learning as a “way of teaching and learning” moving towards a “new educational paradigm” (Sangra, Vlachopoulos and Cabrera, 2012). However, as a tool of new educational paradigm, E-Learning has struggled to be accepted in academic circles. Eom (2006) posited that studying via online is not for everyone because they might find it hard to motivate themselves or difficult to study at home. In spite of the tremendous opportunities afforded by e-learning for learners, there are a variety of barriers that interfere with their effective use. Mostly student feel inconvenience using e-learning platforms because they feel that the system will always bring a problem to them such as complicated programme. Besides, the acceptance will be slightly problematic because the students will be more lenient about their assessment and exposed to cheating.

In addition, studies by Konur (2007) and Waddell (2007) imposed a question on how accessible is the growing array of available e-learning for on campus and off campus students. Despite online courses allowing students to complete coursework from a wide range of locations and remove the time restriction to access course lectures, however, not all students can afford to have access or subscribe to broadband or Wifi connection at their accommodation because they come from a different socio-economic background and exposure.

Another common myth about online courses is that it can reduce cost and energy. However, if not implemented correctly, it can also be a colossal waste of time and money. In reality, students have to spend more money on printing paper, paying for internet, utilities and other expenses in order to access E-Learning facilities (Arsham, 1995).

Therefore in order to fill this gap, it is crucial to explore the effectiveness of E-Learning through the critical dimensions of acceptance, accessibility and cost savings.

2. LITERATURE REVIEW

2.1 Acceptance

A study by Dillon and Morris (1996) defines students’ acceptance as “the demonstrable willingness within a user group to employ information technology for the tasks it is designed to support”. A study by Song (2010) strengthened the critical need of e-learning which is highly associated with the technology application, as such learners’ technology acceptance will play a crucial part in contributing to the success of online learning programs. This study, viewed acceptance in the context of acceptance of technology which refers to online courses which users adapt to, as well as the service as a useful tool in improving their performance in learning. According to previous studies (Hong, Lai and Holton, 2003; Khalid, 2014; Hussein, 2015), the students who had a high level of acceptance indicated that E-Learning was convenient and flexible. When users of e-learning believe using the online course improves their productivity and effectiveness, they are likely to accept and consider taking the online course.

H1: There is a significant and positive relationship between acceptance and the effectiveness of E-Learning.

2.2 Accessibility

In this study, e-learning accessibility refers to the degree of ease with which a university student can access and use a campus e-learning system (Thong, Hong, and Tam, 2002). Accessibility is crucial as the learning process has to take place through the Internet. Without it being easily accessible, learners will easily lose their patience and find this learning method becoming less convenient for them. One of the benefits of E-Learning is that it provides a fast and easy learning environment (Chai and Poh, 2009). Lin and Lu (2000) reported that higher information accessibility brings about higher use of information and higher perception of ease of use, and which will highlight the effectiveness of the online system.

H2: There is a significant and positive relationship between accessibility and the effectiveness of E-Learning.

2.3 Cost saving

According to Hjeltnes & Hansson (2005), if a learning program is effective, it has the potential of being cost effective. Ashram (1995) stated that online learning can be more effective than classroom, and it is becoming less expensive too. He also mentioned that one of the main concerns in targeting the transformation of learning/teaching through technology is by reducing the cost. Ideally, e-Learning is the least costly education option (Woddall, 2011). It not only saves cost, work hours and the facility's energy, but the information is maintained and updated much more effectively online as well.

H3: There is a significant and positive relationship between cost savings and the effectiveness of E-Learning.
3. METHODOLOGY

This quantitative study involves 315 university students of Public Higher Institution (IPTA) in Kelantant. The respondents were selected randomly through the probability sampling technique. A survey method was used as an approach in this study and a structured questionnaire was given to a sample of a population to collect information from respondents. The questionnaire was given to the respondents with a time allocation of around 20 minutes to complete the questionnaire. The questionnaire includes the explanation of the purpose of the study and the instructions to the respondent at the front page and followed by four sections which are socio demographic profiles; and the Likert-scale, designed to address questions on acceptance, accessibility and cost savings. The respondents were asked for consent before proceeding to the survey in order to ensure that ethical consideration was taken into account during conducting the study. Lastly, data were analyzed using statistical package of social sciences (SPSS) and various statistical techniques were used such as descriptive analysis, Pearson correlation and regression analysis.

4. RESULTS

The profile of the respondents were shown in Table 1

Table 1: Profile of the Respondents

<table>
<thead>
<tr>
<th>Profile</th>
<th>Categories</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Male</td>
<td>40.3</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>59.7</td>
</tr>
<tr>
<td>Age (Years)</td>
<td>20-23</td>
<td>58.7</td>
</tr>
<tr>
<td></td>
<td>24-27</td>
<td>27.3</td>
</tr>
<tr>
<td></td>
<td>28-31</td>
<td>14.0</td>
</tr>
<tr>
<td>Education level</td>
<td>Bachelor</td>
<td>96.5</td>
</tr>
<tr>
<td></td>
<td>Master</td>
<td>3.5</td>
</tr>
<tr>
<td>Area of study</td>
<td>Economics</td>
<td>34.9</td>
</tr>
<tr>
<td></td>
<td>Finance</td>
<td>23.5</td>
</tr>
<tr>
<td></td>
<td>Marketing</td>
<td>20.0</td>
</tr>
<tr>
<td></td>
<td>Islamic Banking</td>
<td>12.7</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>8.9</td>
</tr>
<tr>
<td>Semester</td>
<td>1</td>
<td>34.9</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>26.0</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>24.8</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>12.4</td>
</tr>
</tbody>
</table>

Table 1 presents the distribution of the respondents based on gender, age groups, level of education, course, part, knowledge of online learning, and use of online learning. In terms of gender, the percentage of female respondents is slightly higher, which accounts for more than half of the total respondents surveyed (59.7%) and compared to male respondents (40.3%). Majority of the respondents were in the age range – 20-23 years (58.7%), followed by those between 24-27 years (27.3%) and the least was the age group of 28-31 years (14%). In terms of education level, majority of the respondents surveyed were studying for their bachelor’s degree (96.5%), which accounts for more than 90% of the total respondents and the lowest was found among to studying for their master’s degree (3.5%). Most of the respondents were studying in Economic courses (34.9%), followed by Finance courses (23.5%), Marketing courses (20.0%), Islamic Banking course (12.7%) and lastly Statistic course (8.9%). Majority of the students were in semester 1 (34.9%), followed by the students in Semester 2 (26.0%) and lastly students in Semester 3 (24.8%).
According to the result above, acceptance item is significant with the effectiveness of online learning by having p-value = 0.000 whilst accessibility and cost saving are not significant with effectiveness. The result also found that acceptance is the most important factor that contributes to the effectiveness of online learning with a value of $\beta = 0.982$. The results indicate that they have a positive relationship with each other. The relationship can be defined by when a factor goes up 1%, then effectiveness also increases by $\beta$% while other variables are held constant.

5. DISCUSSION AND CONCLUSION

From the findings, the study found the factors that influence the effectiveness of E-Learning among university students. This study indicates that acceptance is the most important and significant factor to be associated with the effectiveness of E-Learning. This result is similar to a previous study done by Hong, Lai and Holton (2003), who reported that more than half of their participants had high levels of acceptance with the E-Learning. This is due to the fact that students have to accept and already aware about the E-Learning. Students were exposed to online learning since they were in Year 1. They found that E-Learning was convenient and flexible for them. According to (Hussein, 2015; Khalid, 2014), students have accepted E-Learning because it was convenient for them, and they can learn at their own pace and its flexible in terms of time and place.

In terms of accessibility, the findings of this study found nothing significant with regards to the effectiveness of the E-Learning. Majority of the previous studies in E-Learning that focus on the accessibility factor which is significant when associated with disable students (Ssegawa, 2015; Guglielman, 2010; Fitchen et al, 2009). This is due to the fact that this study employed the able students and they feel that they do not have a problem accessing the online facilities either physically or mentally. Cost saving also was not a significant factor that contributed to the effectiveness of the E-Learning. Students do not have a problem with this issue because basically, the university has already provided the online facilities and internet access freely to all university students in the campus (Hjeltnes & Hansson, 2005).

In conclusion, since the acceptance is the most important factor that contributes to the effectiveness of E-Learning, therefore it shows that E-Learning is already accepted by the university students who are the generation of technology savvy people including having a smartphone and it is timely for improving the accessibility of the online learning system through mobile and moving towards a new educational paradigm called ‘M-Learning’.

REFERENCES


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