Implementation of ICT Policy (Blended Learning Approach): Investigating factors of Behavioural Intention and Use Behaviour

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The purpose of this study was to evaluate the implementation of ICT policies in investigating of Behavioral Intention (BI) and Use Behavior (UB) factors by employing experience and workload of teachers as moderator. The identified factors were Use Expectancy (UE), Social Influence (SI), Facilitating Conditions (FC) and Teacher Efficacy (TE). Experience and workload are defined as moderator variables, and integrated into the study model. The data were collected through a questionnaire among 720 teachers in Malaysia. The findings showed UE, SI, FC, and TE were significant factors affecting BI and UB. The findings of empirical analysis also revealed that experience factors moderate the relationship between FC and UB. Meanwhile, workload factors moderate (1) UE and BI relationships, and (2) TE and BI relationships. This study also provided positive implications for efforts to promote learning practices using a blended learning approach through constructive guidance to policymakers and planning for professional development of teaching.

Keywords: implementation policy blended learning, moderator, SEM-AMOS, experience, teachers workload

INTRODUCTION

The Interim Strategic Plan 2011-2020 (Ministry of Education Malaysia, 2012b) has stressed the use of ICT in schools as a vital element in achieving the 10th Malaysia Plan 2011-2015 objectives. To succeed the objectives, MOE has launched a comprehensive and inclusive education system analysis to develop a new Malaysia Education Blueprint in October 2011 (Ministry of Education Malaysia, 2012a).

The Malaysia Education Blueprint (2013) strategically offers a vision of education system and students’ aspirations that the education system in Malaysia needs and deserves, and 11 strategic or operational shifts required to achieve that vision. Shift 7 focuses on the importance of Information and Communications Technology (ICT) to increase the quality of learning in Malaysia, which provides Internet access and virtual learning environment via 1-BestariNet to all 10,000 schools. Additionally, Clause 29 & 30 in the National Education Policy effort from the Educational Policy Planning and Research Division (2012b) also clearly reflected the needs of the educational system in Malaysia to use ICT in teaching and learning and educational management.

The use of information and communication technology to support learning is important and a common phenomenon of the 21st century. Therefore, in order to address the needs and challenges of education in the 21st century, the instructional concept of education must be influenced by the effective integration between content, approach and ICT (Fu, 2013; Mazur, Brown & Jacobsen, 2015; Vatanartiran & Karadeniz, 2015). Based on these needs and challenges, the Ministry of Education Malaysia (MOE) through the 1BestariNet project has introduced a virtual platform known as the Frog Virtual Learning Environment (Frog VLE). SaifulAfzan, Lazim, Ali, and Yusoff (2014) and The JISC infoNet Service (2006) explain that virtual learning environment (VLE) is a cloud-based platform aimed at providing a flexible virtual learning environment. The concepts and the nature of the implementation of the learning approach using Frog VLE have indirectly highlighted the concept of blended learning, which is believed to bring a positive impact to students’ learning outcomes (Cimermanová, 2013; Songkram, 2015).

PROBLEM STATEMENT

The term blending learning is a new, foreign and under-utilized terms (MohdAzli, Wong, & Noraini, 2016), especially at primary and secondary levels but the implementation has long since begun. Since the implementation of the 1BestariNet project (when Frog VLE was introduced as a learning platform), in 2011, indirectly the blended learning approach has become the official instructional practice in these national schools (Ministry of Education Malaysia, 2013). However, his acceptance among teachers in Malaysia is still blurred. Therefore, the factors that influence the acceptance and use of the blended learning approach among teachers should be reviewed for further action.

Based on previous studies, teachers generally have positive perceptions and are confident with the ability of ICT to improve the success of student learning (Hamzah, Embi, & Ismail, 2010; Ibrahim, AhmadShidki, WanSalihin, & Fahmi, 2015; Norazilawati, Noraini, NikAzmah, & Rosnidar, 2013; SeriRahayu, 2011; SitiNazuar,
However, teachers are less likely to use ICT in the learning process of students (Hamzah et al., 2010; Seri Rahayu, 2011; Siti Nazuar, 2014; WanZah, Hajar, Azimi, & Hayati, 2009). This scenario appears to be in line with Frog VLE’s practice in school whereby its acceptance among teachers is still a major issue to be solved. Teo, Fan, and Du (2015) and Venkatesh, Morris, Davis, and Davis (2003) suggest that the reason for this situation is the low level of individual acceptance of the technology. When teachers are unable to accept and use technology in an appropriate and optimal way, the advantage of technology cannot be maximized to improve the effectiveness of student learning. Venkatesh, Thong, and Xu (2012) explain that various factors influence individual’s intentions to accept or reject a technology.

In the context of this study, the factors accepting and using Frog VLE platform as an essential element of Blended learning approach must be studied first, before the focus of the study is to identify the effects of moderate interactions (moderator effect) in the relationship between the constructs of the study. Many previous empirical studies have examined the influence of moderator variables on the effect of the relationship between the forecasting factor and the endogenous factor. Almost all studies have supported moderate significance effects on the intentions and retention of individual behavior to use technology. The use of technology have proven that individual intentions can be simplified by experience factors (Attuquayefio & Addo, 2014; Hur, Kim, & Kim, 2014; Lee & Hung, 2015; Muraina, 2015; Tarhini, Hone, Liu, and Tarhini, 2017). However, previous empirical studies (Alghanmi, 2014; Seri Rahayu, 2011; Siti Nazuar, 2014; Termit & Noorma, 2015) have proven that the moderator variable, namely the task load as a factor that has effect of interaction in the relationship between the studies extracts. Therefore, this study was aimed to investigate factors affecting Behavior Intention (BI) and Use Behavior (UB), and the effect of moderator interaction between factors to BI and UB.

LITERATURE REVIEW
Model and Hypothesis
This study proposed and examined the research model developed based on previous theory of technology acceptance, such as Theory of Reasoned Action (TRA) (Fishbein & Ajzen, 1975), Technology Acceptance Model (TAM) (Davis, Bagozzi, & Warshaw, 1989), Theory of Planned Behavior (TPB) (Ajzen, 1991), C-TAM-TPB (Taylor & Todd, 1995), and Unified Theory of Acceptance and Use of Technology (UTAUT) (Venkatesh et al., 2003). The relationship between the variables in the research model was formed based on the relationship between the variables in the previous theories as shown in Table 1.
Table 1
Construct, Sub-Constructs, Model/Theory, Sources and Relationship

<table>
<thead>
<tr>
<th>Construct</th>
<th>Sub-Constructs</th>
<th>Model/Theory</th>
<th>Sources</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use Expectancy (UE)</td>
<td>The individual’s belief that implementing the blade learning approach can facilitate their work and help the learning process achieve its predetermined goals.</td>
<td>This factor or construct is a combination between Effort Expectancy and Performance Expectancy.</td>
<td>The combination is based on the results of the EFA testing that has been done on the pilot test.</td>
<td>UE (\rightarrow) BI</td>
</tr>
<tr>
<td>Social Influence (SI)</td>
<td>SI is the level of individual perceptions regarding the importance of others believing that they should use or implement the blended learning approach.</td>
<td>Social influence Subjective norm TRA, TPB, TAM2, C-TAM-TPB; MPCU.</td>
<td>Ajzen (1991) Venkatesh et al. (2003)</td>
<td>SI (\rightarrow) BI</td>
</tr>
<tr>
<td>Facilitating Conditions (FC)</td>
<td>FC refers to teachers’ perceptions regarding the quality of the system, facilities, technical resources and existing support to help them implement or use the Blade Learning approach.</td>
<td>Facilitating conditions Perceived behavioral control Compatibility Perceived Control TRA, TAM; C-TAM-TPB; IDT; TPB.</td>
<td>Thompson, Higgins, &amp; Howell (1991), Taylor &amp; Todd (1995), Venkatesh et al. (2003)</td>
<td>FC (\rightarrow) BI FC (\rightarrow) UB</td>
</tr>
<tr>
<td>Teacher Efficacy (TE)</td>
<td>Defined as a matter of referring to teachers’ perceptions of their beliefs, positive or negative attitudes about their ability to accept, use or implement the Blended learning approach in more effective ways.</td>
<td>Attitude Toward Computer Use Self-Efficacy TRA, TAM; SCT, C-TAM-TPB.</td>
<td>Davis et al. (1989), Bandura (1989), Thompson et al. (1991)</td>
<td>TE (\rightarrow) BI</td>
</tr>
<tr>
<td>Behavioral Intention (BI)</td>
<td>Refers to the level of desire for doing or remitting an action in using or implementing a Blended learning approach.</td>
<td>Behavioral Intention TRA, TAM, TAM2, C-TAM-TPB; TPB, UTAUT; TPB.</td>
<td>Davis et al. (1989), Taylor &amp; Todd (1995), Venkatesh et al. (2003)</td>
<td>BI (\rightarrow) UB</td>
</tr>
<tr>
<td>Use Behavior (UB)</td>
<td>Refers to action in using or implementing a blended learning approach.</td>
<td>Use Behavioral Usage TRA, TAM, TAM2, C-TAM-TPB; TPB, UTAUT; TPB.</td>
<td>Davis et al. (1989), Venkatesh et al. (2003)</td>
<td>UB (\rightarrow) UB</td>
</tr>
</tbody>
</table>

In addition, to get a more comprehensive picture of the experience factor and the burden of duties are included as moderator variables. Relating to experience as moderator variables, Abdul Wahab (2012), Alghanmi (2014), Touray and Salminen (2013), Venkatesh et al. (2003, 2012) and Zhang, Liu, Yan, and Zhang (2016) consistently show that experienced individuals are more likely to have intentions and then use technology in their task. Although, the tendency to use technology seems to be diminished in parallel with time-shifting (Venkatesh et al., 2003), knowledge and skills acquired
through improved experience have prompted individuals to remain in the technology (Zhang et al., 2016). Alghanmi (2014) stressed that experienced individuals are more positive about technology. Accordingly, the study expects similar effects in the relationship between the constructs of this study based on the setting of the education system in Malaysia.

Past researchers have specifically demonstrate the burden of duties (Alghanmi, 2014; Buabeng-Andoh, 2012; Lim, Morris, & Kupritz, 2007; Seri Rahayu, 2011; Siti Nazuar, 2014; Termit & Noorma, 2015), as a moderating significant factor. Alghanmi (2014) explains that the burden of duty influences creativity of the students. However, excessive responsibilities will burden teachers in the context of time management, use of energy resources and emotional stress (Seri Rahayu, 2011; Siti Nazuar, 2014; Termit & Noorma, 2015). This situation indirectly creates negative perceptions and attitudes towards innovations that are being introduced to them. Teachers are expecting latest innovations to encourage them to reject the innovation (Seri Rahayu, 2011; Siti Nazuar, 2014).

Accordingly, the study expects difference in terms of experience and task load by the expected completion of assignments, environmental influences, facilities conditions, self-efficacy in forming individual intentions and behaviors to use technology. Based on this expectation, the study predicts that there are certain variables that will simplify the relationship between the study variables. Through the demographic characteristics of the sample and the study environment and work culture of school teachers in the country (Lim & Hwa, 2015; Norazilawati, Noraini, Nik Azmah, & Rosnidar, 2013; Termit & Noorma, 2015; Wong, Rosma, Goh, & Mohd Khairezan, 2013) the study has listed two modifiers (moderators) namely experience and task load to measure their impact on each relationship between the main variables of the study.

Therefore, the study has presented hypotheses to prove the influence of moderator variables (experience and workload) in the structure of the study structure to gain a better understanding and illustrate the acceptance and adoption of the blended learning approach among teachers in Malaysia. The relationship between these variables has been adapted into the study model framework (Figure 1).
Hypothesis moderator (Experience)

H_{1a}  Experience moderate relationship between UE and BI.
H_{1b}  Experience moderate relationship between SI and BI.
H_{1c}  Experience moderate relationship between FC and BI.
H_{1d}  Experience moderate relationship between FC and UB.
H_{1e}  Experience moderate relationship between EG and BI.

Hypothesis moderator (Workload)

H_{2a}  Workload moderate relationship between EU and BI.
H_{2b}  Workload moderate relationship between SI and BI.
H_{2c}  Workload moderate relationship between FC and BI.
H_{2d}  Workload moderate relationship between FC and UB.
H_{2e}  Workload moderate relationship between EG and BI.
METHOD

Sampling and procedure of research

The data were collected from school teachers in Malaysia. A total of 1440 questionnaires were distributed to 144 chosen random schools. Samples were given the option to answer online (https://soalselidikvle.blogspot.com/) or print the paper. The questionnaire used in this study were developed through a literature review with a small change to adapt to the research issue. The majority of the constructs and items are similar to the UTAUT model by Venkatesh et al. (2003), but there is an addition of constructs and new moderator variables in forming a review framework. A total of 851 research samples (59.1%) have responded to the invitation to answer questionnaires sent to schools nationwide through school principals. Approximately (n = 851) a total of 566 samples responded to the questionnaire in paper prints and 285 samples responded online. Both questionnaires, printed and online questionnaires are totally the same.

Data Analysis

Through Structural Equation Modelling (SEM), IBM’s SPSS Amos (Analysis of Moment Structures) software, a second-generation advanced statistical analysis approach that combines validation factor analysis with linear regression was used to analyze inferential statistics for this study data. The model assumption analysis using covariance-based (CB) is to test the proposed model, which represents the relationship between the six variables in this study. At the same time, all the relationships between the variables in the model will be estimated and measured to derive significant value. In particular, SEM has been used to the relationships between exogenous variables and endogenous variables (Hair, Babin, & Krey, 2017; Hair, Black, Babin, & Anderson, 2014; Tabachnick & Fidell, 2007).

For hypothesis proofing, multiple group analysis techniques (multi-group analysis) were conducted to test the effect of interactions by moderator variables on the relationship between exogenous and endogenous variables. Based on the effectiveness testing guide (Gaskin, 2016), there are three steps to be followed to prove the impact of the mode of relationship between relationships within the model.

First, the data set for each moderator variable should be divided into two (by category) and labelled as a high (low) group and low (low) group. Secondly, two structural models for comparison for each moderator would have been Model 1 is an unconstrained model for both groups (high and low), where all the relationship values between the constructs in the model are not constrained. While Model 2 is a constrained model for both groups, where all the relationship values between constructs is connecting to be at the same value. Testing of these two groups is performed separately but simultaneously using IBM SPSS Amos statistical software. The third step is by assessing differences in the value of Chi-square (χ2) and degree of freedom (df) between the Constrained model and the Unconstrained model. For proving that moderator effects, the difference in Chi-square values should be greater than the value of df (Critical values of the chi-squared distribution); Δχ2> critical values at α = 0.05. If the test can be fulfilled (sig, p <0.05),
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then the tested relationship can be validated having a significant interaction effect (the effect of the moderator in relation between the constructs) and hence the hypothesis testing can be proved (Dawson, 2014; Gaskin, 2016; Kline, 2011; Saltson & Sharon, 2015).

In order to prove the strength of the moderator’s direction in the test relationship, the study compares the value of the standardized estimate (β) between groups to identify groups with more significant interaction effects.

**FINDINGS**

**Testing Model**

**Direct Effect**

![Image](image_url)

**Figure 2**

**Fully Correlated Model (Standardized Regression Weights)**

Notes: UE = Use Expectancy (UE), SI = Social Influence (SI), FC = Facilitating Conditions (FC), TEF = Teacher Efficacy (TE), BI = Behavioural Intention (BI), and UB = Use Behaviour (UB).

*Figure 2* showed the estimation of parameters for the study model. The findings of the analysis showed that Use Expectancy (UE) significantly affected the Behavioural Intention (BI) of the teacher to the Blended Learning approach (β = 0.395, p < .001). Social Influence (SI) also significantly affected Behavioural Intention (BI) (β = 0.196, p < .001). Facilitating Conditions (FC) significantly affected Behavioural Intention (β = -0.162, p < .001) and Use Behaviour (UB) (β = 0.146, p < .05). Lastly, Teacher Efficacy (TE) had been shown to significantly affect the Behavioural Intention (BI) of the teacher.
to implement the blended learning approach (β = 0.453, p < .001), however, the relationship between Behavioural Intention (BI) and Use Behaviour (UB) is not significant (β = 0.076, p > .01).

Squared Multiple Correlations (R2) analysis showed the variance values for Behavioural Intention (BI) constructs predicted by exogenous variables is 0.733 (R2 for NTL = 0.733). This means that 73.3 % of the total variance in the Behavioural Intention (BI) construct can be predicted by the variance in Use Expectancy (UE), Social Influence (SI), Facilitating Conditions (FC) and Teacher Efficacy (TE). These results illustrated that there were only 26.7 % change in Behavioural Intention (BI) due to other factors not predicted by this research model. For the Use Behaviour construct (UB), R2 analysis obtained a value of 0.651 (R2 for TLP = 0.651). This means that 65.1 % of the total variance in the Use Behaviour (UB) construct was predicted by the variance in Use Expectancy (UE), Social Influence (SI), Facilitating Conditions (FC), Teacher Efficacy (TE), and Behavioural Intention). There was only 34.9 percent change in the Use Behaviour (UB) due to other factors not predicted by this study.

Hypothesis

A summary of the results of hypothesis testing is shown in Table 2.

Table 2
Summary of of Moderator Effect

<table>
<thead>
<tr>
<th>Relationship</th>
<th>Standardized estimate (β) (CR)</th>
<th>P</th>
<th>Standardized estimate (β) (CR)</th>
<th>P</th>
<th>Difference</th>
<th>Moderator Effect</th>
<th>Hypothesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>UE—&gt;BI (H1a)</td>
<td>0.399*** 5.32 ***</td>
<td>0.382*** 5.468 ***</td>
<td>0.079</td>
<td>0.079</td>
<td>No</td>
<td>Rejected</td>
<td></td>
</tr>
<tr>
<td>SI—&gt;BI (H2a)</td>
<td>0.155** 2.254</td>
<td>0.024</td>
<td>0.23*** 3.398 ***</td>
<td>0.024</td>
<td>0.23 ***</td>
<td>No</td>
<td>Rejected</td>
</tr>
<tr>
<td>TE—&gt;BI (H3a)</td>
<td>0.439*** 5.182 ***</td>
<td>0.456*** 6.588 ***</td>
<td>0.453*** 6.588 ***</td>
<td>0.453 ***</td>
<td>6.588 ***</td>
<td>Yes</td>
<td>Accepted</td>
</tr>
<tr>
<td>UE—&gt;UB (H1b)</td>
<td>0.497*** 8.051 ***</td>
<td>0.126** 1.211 0.226</td>
<td>11.958</td>
<td>11.958</td>
<td>Yes</td>
<td>Accepted</td>
<td></td>
</tr>
<tr>
<td>SI—&gt;UB (H2b)</td>
<td>0.183** 3.21</td>
<td>0.001</td>
<td>0.102** 1.105 0.269</td>
<td>1.105</td>
<td>0.269</td>
<td>No</td>
<td>Rejected</td>
</tr>
<tr>
<td>TE—&gt;UB (H3b)</td>
<td>-0.141** -2.71</td>
<td>0.007</td>
<td>-0.086*** -1.08 0.279</td>
<td>-1.08</td>
<td>0.279</td>
<td>No</td>
<td>Rejected</td>
</tr>
<tr>
<td>TE—&gt;UB (H3b)</td>
<td>0.119** 2.034</td>
<td>0.042</td>
<td>0.263** 2.979 0.003</td>
<td>2.979</td>
<td>0.003</td>
<td>No</td>
<td>Rejected</td>
</tr>
<tr>
<td>TE—&gt;UB (H3b)</td>
<td>0.354*** 5.876 ***</td>
<td>0.737*** 6.213 ***</td>
<td>5.823</td>
<td>5.823</td>
<td>Yes</td>
<td>Accepted</td>
<td></td>
</tr>
</tbody>
</table>

Notes: ***p<0.001, **p<0.005, *p<0.05. Significant if Δχ² > critical values(cv), χ²(df=1) = 3.84, p<0.05 (Kline, 2011).
Multiple group analysis of multiple group analysis tests was conducted to evaluate the influence of moderator variables (teacher experience and teacher workload) in the relationship between internal constructs in the study model. For the effect of teacher experience and workload as moderators, only three relationships (bold) (FC--- UB); (UE--- BI); and (TE---BI) have been shown to have interaction effects as moderator variables and supports the hypotheses (H1d); (H2a), and (H2e).

**DISCUSSION**

In order to enhance the acceptance and use of the blended learning approach among teachers, it is important to identify feedback of teachers on the implementation of blended learning as well as other factors that may influence their intentions. This study has identified four factors that influence the Behavioural Intention (BI) and Teacher's Use Behaviour (UB) to implement blended learning. The Performance Expectancy (JP), Social Influence (SI), Facilitating Conditions (FC) and Teacher Efficacy (TE) (73.3%) have explained the total variance in Behavioural Intention (BI) and over half (65.1%) variance in Use Behaviour (UB). The findings of the analysis also showed that the model of the study has a good fit model index, as well as can explain the almost complete representation of relationships in describing the factors that influence the intention and use of the teacher in blended learning.

In relation to the hypothesis of the effect of the moderator experience, the findings revealed that only one of the five relationships tested by the experience moderator is significant. Testing showed that H1d hypotheses can be proven and supported. Therefore, the findings indicate that teachers’ experience can effect the relationship between Facilitating Conditions (FC) and Use Behaviour (UB).

The findings are consistent with previous studies (AbdulWahab, 2012; Alghanmi, 2014; Hur et al., 2014; Touray & Salminen, 2013; Venkatesh et al., 2003, 2012; Zhang et al., 2016). Individuals are moderator variables that interact over the relationship between the study variables. The perception of both (experienced and inexperienced) groups of teachers is parallel in the anticipation of the importance of Facilitating Conditions (FC) in influencing their Use Behaviour (UB). In particular, this study demonstrates the influence of experienced teachers to be more powerful than less experienced teachers do. Venkatesh et al. (2003) explains that experience is an important element in influencing individual behaviour to use technology. Experienced individuals usually have the skills and knowledge (Zhang et al., 2016), so their emotions are more stable and positive in anticipation of technology-related Facilitating Conditions (FC) (Hur et al., 2014). Individual experiences are also linked to creative thinking in planning student-learning processes (Alghanmi, 2014).

The findings showed that over 10 years of experienced teachers have higher behavioural tendency to implement blended learning even though ICT facilities and technical support are minimum. The teacher's view implied that experienced teachers are more rational and prepared for any possibilities and changes that affect Facilitating Conditions (FC), in influencing their Use Behaviour (UB). Experienced teachers demonstrate that
they are more confident in implementing the Blended learning approach in any Facilitating Conditions (FC).

Overall, the findings clearly showed that the influence of Facilitating Conditions (FC) on the Behavioural Intention (BI) of the teacher to implement the approach of Blended learning to be moderated by the teacher's experience. Experienced teachers are more likely to influence the effect of the relationship between the variables. Practically, experienced teachers should be encouraged to be actively involved in technology-related tasks as they are likely to succeed in integrating technology into the learning process. While less experienced teachers need more exposure regarding the advantages, knowledge and skills of ICT in an effort to shape the perceptions of their experiences. The study summarizes that teachers' experience needs to be improved in order to strengthen the teacher's Behavioural Intention (BI) to implement blended learning.

Consistent with earlier studies pertaining to the constraints of integrating ICT into the learning process (Buabeng-Andoh, 2012; SeriRahayu, 2011; SitiNazuar, 2014; Termit & Noorma, 2015), more teachers' views of workload imaginations, teacher recruitment tasks such as schooling and clerical-related tasks will reduce their intentions to use technology despite expectations of usefulness to be positive. Statistical data analysis showed that teachers with less than four positions are more likely to implement the Blended learning approach when their expectations of the business and the advantages of using the Frog VLE platform are positive. Their expectations of the usefulness of blended learning strongly influence their intention to implement it. Therefore, teachers with less workload seem to be more prepared to implement blended learning compared to teachers with heavier workload when the expected positive aspects of use are improved. Based on the findings, it is concluded that the Use Expectancy (EE) effect on Behavioural Intention (BI) to implement blended learning can be moderated by the workload. The effect of variable workload moderator becomes stronger for teachers with less workload. The implication is that the number of posts held by a teacher should be reduced and the essential task of teachers should have a clear focus, so that their perceptions of the usefulness of blended learning become positive, and strengthen the Behavioural Intention (BI) of teacher to implement blended learning in the classroom.

Furthermore, the study also proved that workload factor simplifies the effect of Teacher Efficacy (TE) on Behavioural Intention (BI), and the effect of simplification is more powerful for teachers with workload than teachers with less workload. The statistical analysis of the study showed that teachers with more than three positions in the school are more prepared, positive, and have strong intentions to implement blended learning. Teachers who have high self-efficacy are more competent to become administrators and perform special school tasks (Masitah et al., 2013; Mohd Azli, Wong, Noraini, & Mahizer, 2016; Zaharah, Saedah, Ghazali, & Nur Hasbuna, 2015). In view of this, it is concluded that teachers with many special posts in school are have high self-efficacy and are able to perform their essential duties. They are able to manage time, skills and knowledge systematically to achieve the task goals.

This situation proves that individuals with positive self-efficacy are able to handle the tasks perfectly (Banas & York, 2014; Kulviwat, Bruner, & Neelankavil, 2014), and are
more open in accepting technology-related innovations (SeriRahayu, 2011). Therefore, in the context of this study, workload can simplify the effect of the relationship between Teacher Efficacy (TE) and Behavioural Intention (BI). Workload of teachers does not prevent their Behavioural Intention (BI) to use Frog VLE platforms. Overall, despite having a lot of workload, the teacher's Behavioural Intention (BI) to implement the blended learning approach can be improved significantly if the Teacher Efficacy (TE) attributes such as the skills, knowledge, beliefs and attitude of teachers can be formed positively.

CONCLUSION

This empirical study was conducted to identify the role of teacher experience and workload as the moderator variable in affecting the relationship between the study variables, thus contributing to the acceptance and use of the blended learning approach among teachers in Malaysia. The findings showed that the adoption and practice of using the blended learning approach by teachers can be realized by considering the Use Expectancy (EE) factors, Social Influence (SI), Facilitating Conditions (FC), and Teacher Efficacy (TE).

In conclusion, this study has been able to explain the influence and role of moderate moderator (simplification) on the study variables thoroughly. The acceptance and use of the blended learning approach among teachers has been made comprehensive. The findings of this study have suggest of an important implications that could be the guideline for policymakers, MOEs, IBestarinet project contractors and related parties. The selective focus should be given to relevant aspects to address this issue effectively to produce the expected impact. Aspects such as teacher’s experience and workload need to be addressed in planning any programs related to technology integration in the learning process of students, in particular, the applied learning approach. A comprehensive understanding of the structure model of this study can help stakeholders in the preparation of constructive plans to increase the acceptance and adoption of the blended learning approach among teachers in Malaysia.

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