



WWJMRD 2021; 7(2): 55-58
www.wwjmr.com
International Journal
Peer Reviewed Journal
Refereed Journal
Indexed Journal
Impact Factor SJIF 2017:
5.182 2018: 5.51, (ISI) 2020-
2021: 1.361
E-ISSN: 2454-6615

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Impact of Teacher Factor on the Utilization of LRMDS in the Division of Biliran

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Abstract

Development, storing, and sharing of learning materials have not been as fast and easy as in the digital era. This descriptive-correlational study examined the impact of teacher factor on their utilization of Learning Resource Management and Development System of the Department of Education. Simple random sampling technique determined the 1030 teacher-respondents from DepEd Biliran Division. A survey questionnaire was used to collect the data analyzed through descriptive statistics, Pearson r, and multiple regression analysis. Results indicated that most of the respondents fairly used the LRMDS portal. Their age, sex, and civil status have negative significant impact while highest educational attainment and years in teaching have positive significant effect on their LRMDS utilization. It is deduced that LRMDS utilization follows the professional growth and time-tested experiences of the teachers. Recommendation on the constant teacher empowerment on developing and digital dissemination of learning resources through the DepEd portal is forwarded.

Keywords: learning resource management, LRMDS utilization, teacher factor, knowledge sharing

Introduction

Accessibility, sufficiency, and relevance of teaching and learning resources in the classroom influence quality learning and teaching which have a very significant impact on learning and academic performance of students. The teacher uses instructional materials to make teaching and learning process motivating (Dahar, & Faize, 2011), and to develop higher learning abilities among the learners through self-teaching or guided learning (Gagne, 2005). But the dawn of the 20th century saw the fast surge of digital learning resources available in the internet. Technologies and online resources help students overcome their learning difficulties (Abbot, 2007), and improve their achievements and faculty performance (Jones et al. 2011). Moreover, student engagement with online resources and their overall academic result have been found to be positively correlated (Wong, 2013; Adeogun, 2001; Ahmed, & Khanam, 2014). With this growing trend, various educational systems worldwide adopted learning resources management systems for smooth dissemination and wider utilization of teaching and learning materials.

Learning through interactivity has become the new normal since the Department of Education has also capitalized on this platform. One such initiative is the Learning Resources Management and Development System (LRMDS) developed with the assistance of the Australian Government under the Strengthening Implementation of Visayas Education (STRIVE) program. In terms of LRMDS portal registration in Region VIII, the divisions of Southern Leyte, Tacloban City, Maasin City, and Baybay City almost got 100% participation rate (Learning Resource Portal/Dashboard, Admin Panel, RO8 s. 2018).

However, Susara (2016) discovered problems relative to using the DepEd LR portal, among which are: absence of clear format of learning resources, delays in accessing the portal, lack of knowledge in using the portal, unmotivated teachers in producing learning resources, system glitch, and poor internet access. With this, the researcher found the need to look into the profile of the teachers and their utilization of LRMDS and determine whether the former impacts the latter. Anchored on the theory of reasoned action (Fishbein, 1967) and Technology and Acceptance Model (Venkatesh, & Davis, 2000), this study anticipated

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applicability in decision-making as regards expanding the utilization of LRMDS and enhancing its features to make it more teacher-friendly.

Research Questions

This study determined the impact of teacher factor on the utilization of LRMDS in the Division of Biliran. Specifically, it answered the following:

1. What is the profile of the teacher-respondents with respect to:
 - 1.1 age and sex,
 - 1.2 civil status,
 - 1.3 highest educational attainment, and
 - 1.4 number of years in teaching?
2. What is the extent of utilization of LRMDS?
3. Is there a significant relationship between the teachers' profile and the utilization of LRMDS?
4. Does the teachers' profile predict the utilization of LRMDS?

Methodology

Predictive correlational research design (Froilan, & Adarayan-Morallos, 2020) was used to determine the impact of teacher factor on the utilization of LRMDS in the Division of Biliran as of 2019. The 1,030 teacher-respondents from within the division were sampled through simple random sampling. With their consent and assurance of anonymity and confidentiality, they responded to a well-validated survey instrument which covered the teacher factor and their level of utilization of LRMDS. The 5-Likert scale survey questionnaire on the portal utilization were rated as: *Always* for 5-7 times in a week, *Often* for 2-4 times in a week, *Sometimes* for only once a week, *Rarely* for only once in a month or year, and *Never* for not used at all. The gathered data were analyzed using descriptive statistics, Pearson r, and multiple regression analysis with level of significance at 5%. The analyses were run through the Statistical Package for Social Sciences (SPSS) v.24.

Results and Discussion

Teacher Factor

Most of the respondents were 35 – 49 years old (702 or 68.16%), female (714 or 69.32%), married (737 or 71.55%), acquired master's degree units (423 or 41.07%), and have been classroom teachers for 6 – 10 years (257 or 24.95%) (see Table 1). Therefore, the most of the respondents are at their old age, female, have their own families, pursued graduate studies, and acquired at least a decade of teaching experiences.

Table 1: Teacher Factor

| Age | f | % |
|--------------|-------------|---------------|
| 50 – 65 | 192 | 18.64 |
| 35 – 49 | 702 | 68.16 |
| 18 – 34 | 136 | 13.20 |
| Total | 1030 | 100.00 |
| Sex | | |
| Male | 316 | 30.68 |
| Female | 714 | 69.32 |
| Total | 1030 | 100.00 |
| Civil Status | | |
| Single | 245 | 23.79 |
| Married | 737 | 71.55 |
| Widow/er | 48 | 4.66 |
| Total | 1030 | 100.00 |

| Educational Qualification | | |
|--|-------------|---------------|
| Doctoral Degree Holder | 46 | 4.47 |
| CAR Holder in a Doctoral Program | 26 | 2.52 |
| Master's Degree with Units in PhD | 16 | 1.55 |
| Master's Degree Holder | 134 | 13.01 |
| CAR Holder in a Masteral Program | 334 | 32.43 |
| Bachelor's Degree with Masteral Units | 423 | 41.07 |
| Bachelor's Degree Holder | 51 | 4.95 |
| Total | 1030 | 100.00 |
| Number of Years in Teaching of the Classroom – Teacher Respondents | F | % |
| 26 and above | 137 | 13.30 |
| 21 – 25 years | 148 | 14.37 |
| 16 – 20 years | 92 | 8.93 |
| 11 – 15 years | 241 | 23.40 |
| 6 – 10 years | 257 | 24.95 |
| 1 – 5 years | 155 | 15.05 |
| Total | 1030 | 100.00 |

Level of Utilization of LRMDS

Generally, the respondents reported that they fairly utilize the LRMDS (m = 2.18). Specifically, fair utilization in accessing the LRMDS website (m = 2.11), finding and selecting learning resources in the K – 12 ladder (m = 2.14), downloading of learning resources (m = 2.24), using the downloaded resources as teaching and learning materials and or references/supplementary materials (m = 2.27), and sharing the downloaded resources with others as teaching and learning materials and or references/supplementary materials (m = 2.13) was recorded (see Table 2). It can be deduced that the respondents did not maximize the use of learning resources from the LRMDS nor were willing to share their materials through the portal. This can be due to lack of necessary skills and attitude which make them shy away from using the DepEd Learning Resource Management System (Mapunda, 2004).

Table 2: Level of Utilization of LRMDS.

| Indicators | Mean | Interpretation |
|--|-------------|------------------|
| 1. Accessing LRMDS website (http://www.lrmads.deped.gov.ph/) | 2.11 | Fair utilization |
| 2. Finding and selecting learning resources in the K – 12 Ladder | 2.14 | Fair utilization |
| 3. Downloading Learning Resources | 2.24 | Fair utilization |
| 4. Using the downloaded resources as teaching and learning materials and or references/supplementary materials | 2.27 | Fair utilization |
| 5. Sharing the downloaded resources to others as teaching and learning materials and or references/supplementary materials | 2.13 | Fair utilization |
| GRAND MEAN | 2.18 | Fair utilization |

Relationship between the Extent of Utilization of LRMDS and Teacher Factor

Pearson r was used to test the hypothesis that there is no significant relationship between teacher factor and utilization of LRMDS. Results indicate that age ($r = -.279, p < .001$), sex ($r = -.229, p < .001$), and civil status ($r = -.229, p < .001$) have significant negative relationship, while highest educational attainment ($r = .105, p = .001$) and number of years in teaching ($r = -.136, p < .001$) have statistical positive relationship with LRMDS utilization (see Table 3). These results indicate that there is less LRMDS utilization among the respondents when their age,

sex, and civil status are factored in. However, as they acquire much higher education and more years of teaching experience, their LRMDS utilization increases. In contrast, Sipahi (2020) concluded that teachers were less or even not willing to submit their own learning materials for evaluation, quality assurance, and sharing through the DepEd learning portals or even in other similar online platforms. This could be due to difficulties in resourcing sufficient choices of TLMs (Mapunda, 2004).

Table 3: Relationship between the Extent of Utilization of LRMDS and Teacher Factor

| Profile | | Utilization |
|--|---------------------|-------------|
| Age | Pearson Correlation | -.279** |
| | Sig. (2-tailed) | .000 |
| | Interpretation | Significant |
| Sex | Pearson Correlation | -.229** |
| | Sig. (2-tailed) | .000 |
| | Interpretation | Significant |
| Civil Status | Pearson Correlation | -.290** |
| | Sig. (2-tailed) | .000 |
| | Interpretation | Significant |
| Highest Educational Attainment | Pearson Correlation | .105** |
| | Sig. (2-tailed) | .001 |
| | Interpretation | Significant |
| No. of years in teaching | Pearson Correlation | .136** |
| | Sig. (2-tailed) | .000 |
| | Interpretation | Significant |
| *Correlation is significant at the .05 level (2-tailed) | | |
| ** Correlation is highly significant at the .01 level (2-tailed) | | |

Impact of Teacher Factor on LRMDS Utilization

Multiple regression analysis was conducted to determine the strength of the impact of the significantly related teacher factor on LRMDS utilization. Results showed that the teacher factor accounted for 42.80% of the increase in LRMDS utilization. This is confirmed with the significant ANOVA results ($F(5,1024) = 46.018, p < .001$). Specifically, age ($B = -.349, \beta = -.237, t = -6.647, p < .001$), sex ($B = -.419, \beta = -.234, t = -7.507, p < .001$), and civil status ($B = -.414, \beta = -.250, t = -7.479, p < .001$) of the respondents have statistical negative impact on their LRMDS utilization which means that these factors diminish the tendency of the respondents to use learning materials from the portal (see Table 4). On the other hand, their highest educational attainment ($B = .111, \beta = .177, t = 6.057, p < .001$) and number of years in the service ($B = .102, \beta = .202, t = 5.378, p < .001$) have positive correlation with their utilization of LRMDS materials. Coinciding with this, Chirwa (2018) posits that lack of ICT literacy skills diminishes teachers' ability to utilize learning resource management systems like LRMDS. Tella (2012) explains that teachers tend to look for other sources of learning materials only when they could not find what they need from the DepEd portal.

Table 4: Impact of Teacher Factor on LRMDS Utilization.

| Teacher Factor | LRMDS Utilization | |
|----------------|-------------------|-------|
| Age | B | -.349 |
| | Std. Error | .053 |

| | | |
|---|----------------|----------|
| | Beta | -.237 |
| | t | -6.647 |
| | P | .000* |
| Sex | B | -.419 |
| | Std. Error | .056 |
| | Beta | -.234 |
| | t | -7.507 |
| | p | .000* |
| Civil Status | B | -.414 |
| | Std. Error | .055 |
| | Beta | -.250 |
| | t | -7.479 |
| | p | .000* |
| Highest Educational Attainment | B | .111 |
| | Std. Error | .018 |
| | Beta | .177 |
| | t | 6.057 |
| | p | .000* |
| No. of years in teaching | B | .102 |
| | Std. Error | .019 |
| | Beta | .202 |
| | t | 5.378 |
| | p | .000* |
| | R | .428 |
| | R ² | .183 |
| | F-value | 46.018 |
| | df | (5,1024) |
| | P | .000* |
| *Regression is significant at the .05 level (2-tailed) | | |
| ** Regression is highly significant at the .01 level (2-tailed) | | |

Conclusion

The Learning Resource Management and Development System of the Department of Education is a platform which when used exhaustively, has the potential to effect significant upward trend in the quality of education that public school teachers deliver to their students. But the teachers are at the forefront of this digital learning resource management strategy. It is an imperative that they acquire the knowledge and skills necessary to develop, store, and share quality learning resources through further studies or their rich teaching experiences acquired over a longer period of time. If the LRMDS is to be assessed, its success largely depends on the willingness of the teachers to utilize everything it can offer.

Recommendation

The researcher strongly forwards the conduct of seminars, trainings, and short courses that could empower teachers as regards their ability to develop, store, and share learning resources through the LRMDS portal. Sufficient funds, adequate technological facilities, and technical support must be put in place in regular basis so that the continuous progress of this set of skills grow into regularity.

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