



Effectiveness of Pangasinan State University Library Management System

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Abstract – *This research evaluated the level of Effectiveness of PSU Library Management System. The evaluation of the respondents has been analyzed by the researchers. It also intends to answer the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees. For the purpose of the study, two hundred (200) respondents were asked to answer the survey question for better result. One hundred (100) students and one hundred (100) employees who are using the library management system. The researchers used the descriptive survey method of research using questionnaire as the main tool of gathering data. Average Weighted Mean was used in determining statistical result to clearly interpret necessary details from the evaluation made by the respondents. Further, t-test is also used to determine the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees. Based from the evaluation of PSU students and employees, the findings is Very Good with the Average Weighted Mean (AWM) of 3.84. For the significant difference on the level of Effectiveness of PSU Library Management System, using t-test (Independent) at 0.05 level of significance the null hypotheses is accepted which means that the difference between the level of Effectiveness of PSU Library Management System as perceived by students and employees is not significant.*

Keywords – *Effectiveness, Library, Library Management System*



INTRODUCTION

Background of the Study

A library is an organized collection of information sources which is made accessible to the people. The library usually contains the information physically or in a digitized format. In the olden period the access was usually in the library room as the technology grew up the access that was made online.

Library is a fast growing organism. The ancient methods to maintain it are no longer dynamic and efficient. For expeditious retrieval and dissemination of information and better service for the clientele, application of modern techniques has become absolutely indispensable. Libraries are a perilous part of an educational institute. Mostly, it has to roll out fine but complex tasks to maintain records of the books.

The establishment of the University Library System since 1980 is one of the most significant achievements of the Universities development programs. Today, the library has improved tremendously in terms of organization, quality of personnel, materials, facilities and services. It is some kind of a phenomenon none like it before in this part of the country definitely contributing awe and respect to the stature an aura of excellence of the University.

The library management system is software to operate manual tasks of a library. The software aids to manage the entire library processes from keeping up book records to issuance of a book. In addition, it allows efficient management of subtle details of books such as author name, edition, and many other significant details. So, it is easier to look for books and find the right resources for students and the librarian.

The electronic management via the software is essential to track information like issue date, due date, who has borrowed any material, and other relevant information. The system is acquired and designed with an objective to expedite efficient management to the schools to manage a modern library with precise data management.

The PSU Library Management System helps to manage library functions automatically. The primary benefits of the automated library management system are to increase productivity. The librarians can keep up all library functions easily. In short, this system supports keeping the records of all transactions of the books available in the library

OBJECTIVES OF THE STUDY

The main goal of this study was to measure the Effectiveness of PSU Library Management System. The objectives of the study were discussed in the following statements:

1. To determine the level of Effectiveness of PSU Library Management System; and
2. To determine the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees.

Hypotheses

There is no significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees.

MATERIALS AND METHODS

Research Design and Methodology

The researchers used the descriptive-survey. This method was deemed appropriate, since the study will only describe the Effectiveness of PSU Library Management System by conducting a survey from its users – the students and employees of the school.

SOURCES OF DATA

There are two hundred (200) respondents of this study, one hundred (100) students and one hundred (100) employees regarding the study Effectiveness of PSU Library Management System. The researchers used a statistical technique which is the stratified sampling.

INSTRUMENTATION AND DATA COLLECTION

The questionnaire was distributed by the researchers among the two hundred (200) respondents of Pangasinan State University to evaluate the Effectiveness of PSU Library Management System.

The contents of the questionnaire will be the measures of effectiveness, and the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees.

The following scale was used to evaluate the Effectiveness of PSU Library Management System.

Arbitrary Value	Interpretation
5	Excellent (E)
4	Very Good (VG)
3	Good (G)
2	Fair (F)
1	Poor (P)

TOOLS FOR DATA ANALYSIS

The researchers used statistical tool in analyzing the data on the Effectiveness of PSU Library Management System.

For statement of the problem number 1 (one) and 2 (two), weighted mean is being used to analyze the gathered data. T-test is also used to determine the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees.

The following likert scale was used to interpret the computed weighted mean.

Numerical Equivalent	Statistical Range	Interpretation
5	4.21-5.00	Excellent (E)
4	3.41-4.20	Very Good (VG)
3	2.61-3.40	Good (G)
2	1.81-2.60	Fair (F)
1	1.00-1.80	Poor (P)

RESULTS AND DISCUSSION

1. Level of Effectiveness of PSU Library Management System

Table 1

Level of Effectiveness of PSU Library Management System (n=200)

Effectiveness Variables	Students		Employees	
	Weighted Mean	Description	Weighted Mean	Description
1. Accuracy of Information	1.92		2.03	

Sources of Information and factual data clearly listed and available.		Very Good		Very Good
2. Security The system includes adequate provisions for protecting the security of the files and other confidential information.	1.88	Very Good	2.05	Very Good
3. Responsiveness The system responds to your actions as expected.	1.91	Very Good	1.96	Very Good
4. Understandability The purpose of the system is understandable.	1.93	Very Good	2.01	Very Good
5. Interoperability Interfaces of system are completely understood.	1.94	Very Good	1.92	Very Good
6. Suitability Quality of system in having the properties that are right for a specific purpose.	1.89	Very Good	1.93	Very Good
7. Time in completing task Time spent per completing task is not too long.	1.88	Very Good	1.85	Very Good
8. Accessibility All users can have equal	1.85		1.91	

access to information and functionality.		Very Good		Very Good
9. Operability Everybody can use the system.	1.86	Very Good	1.93	Very Good
10. Behavior Clicking links did not spawn new windows.	1.91	Very Good	1.88	Very Good
11. Availability The website is available 24 hours or 7 days a week.	1.93	Very Good	1.89	Very Good
12. Acceptability The overall facilities of website are acceptable.	1.92	Very Good	1.91	Very Good
13. Recoverability Mistakes can be easily and quickly recovered.	1.94	Very Good	1.91	Very Good
Over-All Average Weighted Mean	3.81	Very Good	3.87	Very Good

Table 1, shows the survey results conducted by the researchers, which was based on the level of Effectiveness of PSU Library Management System. The computed total Average Weighted Mean (AWM) was 3.84 that implies “Very Good”. This reveals that the respondent’s evaluation scores well in the effectiveness of the PSU Library Management System.

2. Significant difference on the level of PSU Library Management System as perceived by students and employees

Table 2

Effectiveness of PSU Enrolment System as perceived by students and employees

	Mean	Standard Deviation	Mean Difference	T-Value	Decision
Students	3.81	1.90	-0.04	-0.283663	NS
Employees	3.87	1.94			

Table 2 shows that between the students and employees, there is a difference of -0.04, but statistically analysis shows that using t-test (Independent) at 0.05 level of significance the null hypotheses is accepted which means that the difference between the level of effectiveness as perceived by students and employees is not significant.

CONCLUSION AND RECOMMENDATION

Conclusion

This research evaluated the level of Effectiveness of PSU Library Management System. The evaluation of the respondents has been analyzed by the researchers. It also intends to answer the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees. For the purpose of the study, two hundred (200) respondents were asked to answer the survey question for better result. One hundred (100) students and one hundred (100) employees who are using the library management system. The researchers used the descriptive survey method of research using questionnaire as the main tool of gathering data. Average Weighted Mean was used in determining statistical result to clearly interpret necessary details from the evaluation made by the respondents. Further, t-test is also used to determine the significant difference on the level of Effectiveness of PSU Library Management System as perceived by students and employees. Based from the evaluation of PSU students and employees, the findings is Very Good with the Average Weighted Mean (AWM) of 3.84. For the significant difference on the level of Effectiveness of PSU Library Management System, using t-test (Independent) at 0.05 level of significance the null hypotheses is accepted which means that the difference between the level of Effectiveness of PSU



Library Management System as perceived by students and employees is not significant.

Recommendations

Since, majority of the respondents evaluated the level of Effectiveness of PSU Library Management System “Very Good”, the institution should maintain the performance of the system by making an evaluation every end of school year to presently update what are the necessary improvement will be more noticeably take an attention. The same study may be conducted with larger sample, different groups of users to enhance more the Effectiveness of PSU Library Management System, and results should be used in updating the system. Also, the administrator of the library management system should provide an online evaluation for those who used the system. Some suggestions may also require determining the perception and some comments of the users.

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