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Research Article

Course Crediting and Academic Evaluation System of The College of Communication and Information Technology

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ABSTRACT

The study aimed to develop a Course Crediting and Academic Evaluation System of the College of Communication and Information Technology (CCIT) in President Ramon Magsaysay State University – Iba Campus to offer an online system to ease the procedures of crediting and evaluation of the student academic records. Descriptive research design and descriptive statistics were utilized in this study. The dean, program chairpersons, and students of Bachelor of Science in Computer Science, Bachelor of Science in Computer Engineering and Bachelor of Science in Computer Engineering are the respondents of the study. The findings revealed that the respondents evaluated the software quality of the system using the International Organization for Standardization and the International Electrotechnical Commission (ISO/IEC): 25010:2011 as excellent. The respondents evaluated as strongly recommended on the degree of recommendation of the acquisition and implementation of the system. The Course Crediting and Academic Evaluation System is recommended to implement to improve the present procedures. Training to the end-users is advised to be conducted to know how to use the system. The maintenance and continuous enhancement of the system to adapt to the changing trends in information technology.

Keywords*: course crediting, academic evaluation, system, software quality*

Introduction

Computers are being used for more than just computing as technology advances. They are also used for communicating and spreading critical information. People have never been pleased with the way they live now, which drives them to look for new and better ways to make work easier and faster (Custodjo & Castro, 2016). These technologies have become more central for many colleges and universities; the changing technology landscape, combined with data reporting requirements, has forced schools and universities to evaluate their key

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software systems (Kumar, 2011). The online system is thought to be a significant advance over the paper-based system (Thompson & Ahn, 2012).

Higher education institutions strive for excellence not only in generating globally competitive graduates (Philippine Education), but also in being prepared to respond to society's changing requirements (Kuupole, 2015). Every semester the students must undergo crediting and evaluation of the subjects taken in the previous semester even for the transferees, shifter and returnees. Based on the experiences of the College of Communication and Information Technology (CCIT) students, it is time consuming in doing the said tasks and long queue of waiting due to the manual system is implemented. The evaluator often made mistakes in the crediting and evaluating of grades resulting to edit and have erasures in the form. This process is a high risk of committing errors on the part of the evaluator.

Thus, the researchers aimed to develop a Course Crediting and Academic Evaluation System for the College of Communication and Information Technology (CCIT), President Ramon Magsaysay State University Iba Campus to facilitate the crediting and evaluating of academic records of CCIT students through online. This system will provide easy, accurate and reliable transactions for the students and to the program chairperson and the dean. The system can generate reports to each student in the College of Communication and Information Technology.

Statement of the Problem

This study aimed to develop a Course Crediting and Academic Evaluation System of the College of Communication and Information Technology, President Ramon Magsaysay State University Iba Campus to ease the process of evaluating and crediting of academic record of the students. Specially, this study sought to answer the following questions: determined the level of assessment of the respondents on the Course Crediting and Academic Evaluation System of the College of Communication and Information Technology of President Ramon Magsaysay State University Iba Campus using the ISO/IEC 25010:2011 as to functional suitability, performance efficiency, compatibility, usability, reliability, security, maintainability, and portability and determined the degree of recommendation on the acquisition and implementation of the Course Crediting and Academic Evaluation System of the College of Communication and Information Technology, President Ramon Magsaysay State University Iba Campus

Methods

Descriptive research design was employed in this study. A survey- checklist was used to gather data from the respondents on the evaluation of the software quality and the of recommendation on the acquisition and implementation of the Course Crediting and Academic Evaluation System. A total of 189 respondents participated in the study consisting of the students taking Bachelor of Science in Computer Science, Bachelor of Science in Information Technology and Bachelor of Science in Computer Engineering, program chairpersons and dean of the college. The instrument composed of 2 parts. Part I deals with the evaluation of the respondents on the software quality using ISO/IEC 25010 as to functional sustainability, performance efficiency, compatibility, usability, reliability, security, maintainability, and portability. Part 2 discusses the evaluation on the degree of recommendation of the acquisition and implementation of the system. Descriptive statistics such as frequency, percentage distribution and weighted mean was utilized in the data analysis and interpretation. A 5- point likert scale was used on the evaluation of the software quality and degree of recommendation.

Results and Discussion

Evaluation on the Software Quality

The respondents' evaluation on the software quality of the Course Crediting and Academic Evaluation System of the College of Communication and Information Technology using the ISO/IEC 25010:2011 is presented in Table 1.

Table 1. Evaluation on the software quality of the Course Crediting and Academic Evaluation System using the ISO/IEC 25010:2011

ISO/ IEC 25010:2011 Metrics	Weighted Mean	Verbal Interpretation	Rank
Functional Sustainability	4.31	Excellent	8
Performance Efficiency	4.32	Excellent	7
Compatibility	4.37	Excellent	5
Usability	4.44	Excellent	1.5
Reliability	4.36	Excellent	6
Security	4.40	Excellent	3.5
Maintainability	4.40	Excellent	3.5
Portability	4.44	Excellent	1.5
Overall Weighted Mean	4.38	Excellent	

The respondents evaluated the software quality of the system in terms of usability and portability of as excellent with a weighted mean of 4.44 (ranked 1.5); security and maintainability (4.40, ranked 3.5); compatibility (4.37, ranked 5); reliability (4.36, ranked 6); performance efficiency (4.32, ranked 7); and functional suitability (4.31, ranked 8). The overall weighted mean on the evaluation on the software quality of the Course Crediting and Academic Evaluation System using the ISO/IEC 25010:2011 was 4.38 with a verbal interpretation of excellent. The results clearly denote that the developed system will be useful and provide ease the procedures on crediting and evaluation of the grades of the CCIT students. Usability, according to ISO 9241-11, refers to a product's ability to be utilized by certain people to achieve specific goals quickly and efficiently within a given context (Marsico & Levialdi, 2004).

Degree of Recommendation on the Acquisition and Implementation

The degree of recommendation on the acquisition and implementation of the Course Crediting and Academic Evaluation System of the College of Communication and Information Technology is presented in Table 2.

Table 2. Degree of recommendation on the acquisition and implementation of the Course Crediting and Academic Evaluation System for the College of Communication and Information Technology

Classification	Frequency	Percentage
Strongly Recommended	125	66.14
Recommended	59	31.22
Moderately Recommended	5	2.64
Slightly Recommended	0	0.00
Not Recommended	0	0.00
Total	189	100.00

There were 125 respondents or 66.14% evaluated strongly recommended with the degree on the acquisition and implementation of the system followed by 59 respondents or 31.22% as recommended. Third, there were 5 respondents or 2.64% rated moderately recommended. The findings show that the system would be beneficial to the end- users of the CCIT. Because the implementation of IT systems has an impact on the effectiveness of systems and the efficiency of firm performance, it is critical to investigate the process of IT system deployment (Wiechetek, 2012).

Conclusions

Based on the findings, the researcher concluded that the respondents evaluated the software quality of the Course Crediting and Academic Evaluation System using the International Organization for Standardization and the International Electrotechnical Commission (ISO/IEC): 25010:2011 as excellent. The respondents evaluated the degree of recommendation of the acquisition and implementation of the system as highly recommended.

The researcher recommend the Course Crediting and Academic Evaluation System may be implemented to improve the present procedures in crediting and evaluation of grades of the students. Trainings to the end- users may be conducted to know on how to use the system. The maintenance and continues enhancement of the Course Crediting and Academic Evaluation System for the College of Communication and Information Technology may be done to adopt with the changing trends in information technology.

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