FOLLOW UP ON THE INTERNAL EDUCATION QUALITY ASSURANCE PERFORMANCE, PROGRAM LEVEL, ACADEMIC YEAR 2016-2018, FACULTY OF INDUSTRIAL TECHNOLOGY, SUAN SUNANDHA RAJABHAT UNIVERSITY

Somkiat Korbuakaew[*], **Weera Chotithammapon**[**], **Apinya Suttiprapha**[***], **Tanawat srisiriwat**[****]

Faculty of Industrial Technology, Suan Sunandha Rajaphat University, Bangkok, Thailand.
*** Faculty of Education, Suan Sunandha Rajaphat University, Bangkok, Thailand.*
E-Mail: somkiat.ko@ssru.ac.th[*], weera.ch@ssru.ac.th[**], apinya.su@ssru.ac.th[***], tanawat.sr@ssru.ac.th[****].

ABSTRACT

The aim of this research is to 1) study and analyze the quality assurance performance of the Faculty of Industrial Technology curriculum, 2) study the development trend of the quality assurance implementation of the curriculum in the Faculty of Industrial Technology, and 3) develop an assurance action plan the quality of program in the Faculty of Industrial Technology. The research population is the lecturers on the course in the Faculty of Industrial Technology. The main duties of teaching and research and performing full-time duties in accordance with the workload responsible in the curriculum, totaling 50 people. The tools used in this research are course performance analysis table and the assessment of the suitability of the course quality assurance implementation plan. Which the research results showed

1) The quality assurance performance at the program level was found that the Faculty of Industrial Technology a total of 10 program are organized and all of them pass the standard criteria in component 1 on standards supervision. The result of performance quality assurance a good level. There are 8 program including industrial management program, industrial product design program, printing industry program, interior design and exhibitions program, safety and occupational health technology program, electrical technology program, building resource management program, and graphic design and multimedia program, and two program for moderate quality assurance performance: computer technology for architecture program, and computer engineering program.

2) The study of quality assurance implementation trends found that in the evaluation cycle of 3 years, there are 3 program in the quality assurance operation in which there is a trend of continuous development: interior design and exhibition program, safety and occupational health technology program, and graphic design and multimedia program.

3) The development of the quality assurance operation plan according to the opinions of the course faculty members, it was found that the teaching staff every course is of the opinion that the quality assurance operation plan of the course is appropriate. It can be put into practice accounted for 100 percent

Keywords: quality assurance, internal assessment, industrial technology

INTRODUCTION

Management of higher education There will be an internal quality assurance committee at the higher education level responsible for supervising, monitoring and controlling the quality of education management. For Thailand, the internal quality assurance committee, Has issued an announcement on criteria and guidelines for Internal Quality Assurance. Higher Education Quality Assurance Act 2014, with the objective of setting criteria and guidelines for internal quality assurance at the higher education level. by adhering to the principle of academic freedom Independence in the conduct of educational establishments. This is to ensure that the quality and standards of educational management are continuously developed to be efficient and effective and to prepare educational institutions to support external quality assurance.

The internal quality assurance system for higher education institutions that educational institutions choose to use for educational quality assurance has 3 levels: program level, faculty level, and institutional level. which has 4 missions: teaching, research, academic service and to preserve arts and culture

Internal educational quality assurance at the curriculum level consists of 6 components: Component 1: Supervision of curriculum standards; Component 2 Quality of Graduates Component 3 Characteristics of students Component 4 Quality of Instructors Component 5: Curriculum, Teaching and Learning Assessment of learners and component 6 learning support

As for the criteria for educational quality assurance within the curriculum level, The Higher Education Internal Quality Assurance Committee has set assessment scores and quality levels as follows:

Rating	Quality level
0.01-2.00	low
2.01-3.00	moderate
3.01-4.00	good
4.01-5.00	very good

Faculty of Industrial Technology, It is an organization under Suan Sunandha Rajabhat University (SSRU). At present, teaching in 10 different program, namely 1) Computer Engineering 2) Electrical Technology 3) Facility Management 4) Graphic and Multimedia Design 5) Industrial Design 6) Industrial Management 7) Interior and Exhibition Design 8) Printing Industry 9) Safety Technology and Occupational Health 10) Technology Computer Application in Architecture.

Since the academic year 2014, the Higher Education Quality Assurance Committee has issued an announcement on criteria and guidelines for internal quality assurance in higher education. As a result, the Faculty of Industrial Technology has improved the internal quality assurance operation system at the curriculum level throughout the past period. To provide educational management with quality, standards and good efficiency in accordance with the objectives of quality assurance. For that reason, the researcher as a faculty member in the program therefore wishes to study, analyze, and follow up on quality assurance performance

of various programs in the Faculty of Industrial Technology, SSRU. The results of this research will be beneficial to the management, planning for future education management.

This study has the following objectives:

1. To study and analyze the quality assurance performance of the curriculum in the Faculty of Industrial Technology. Suan Sunandha Rajabhat University.

2. To study the trend of developing quality assurance operations for curriculum in the Faculty of Industrial Technology. Suan Sunandha Rajabhat University.

3. To develop an improvement plan for the quality assurance of the curriculum in the Faculty of Industrial Technology. Suan Sunandha Rajabhat University.

LITERATURE REVIEWS

Educational Quality Assurance It's a planning process. and the management process of the person responsible for providing education to ensure that the society is confident that it will develop the learners to complete their learning according to the quality standards specified in the curriculum, and meet the expectations of society.

Internal Quality Assurance (IQA) means evaluation and monitoring of educational quality and standards of institutions from within by the PDCA cycle (Plan-Do-Check-Act). It is practiced by institutional personnel, education or by the parent agency with the duty to supervise that educational institution.

The conceptual framework for this research was used by the researcher in accordance with the guidelines of the internal quality assurance committee at the higher education level. According to the Internal Educational Quality Assurance Manual Higher Education 2014, which can show the relationship between the initial and dependent variables as shown in figure 1.
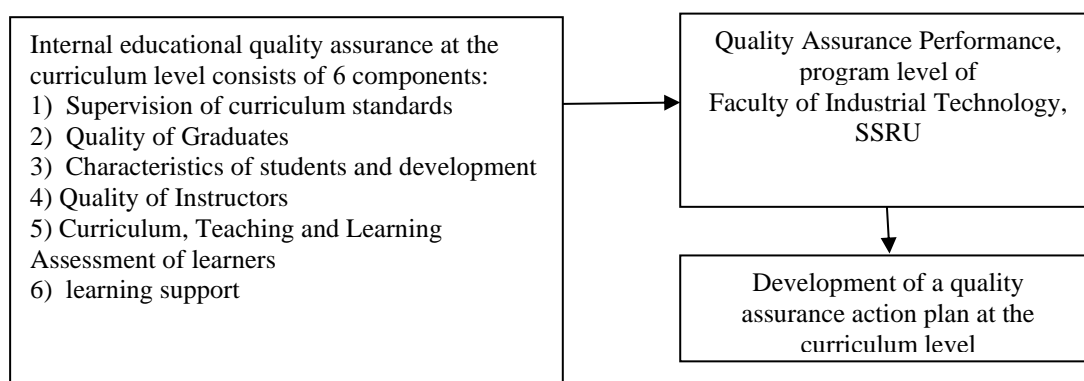

Figure 1 Conceptual framework for research

METHODS

The researcher conducted the research in accordance with the following steps.

1. Study the quality assurance manual document

2. Gather all 10 programs of SAR for the past 3 years.

3. Analyze the quality assurance performance of each curriculum.

4. Analyze data to compare quality assurance assessment results.

5. Analyze the strengths and weaknesses of each curriculum.

6. Develop a quality assurance operational plan for the curriculum.

7. Meeting with programs instructors and small group meetings to development improvement plan.

8. Analyze data, summarize results, discuss results and write a research report.

9. Write research articles, hold group meetings, present research results

RESULTS

From the implementation of internal educational quality assurance at the curriculum level, academic year 2016-2018, Faculty of Industrial Technology. Suan Sunandha Rajabhat University can be shown as in figure 2
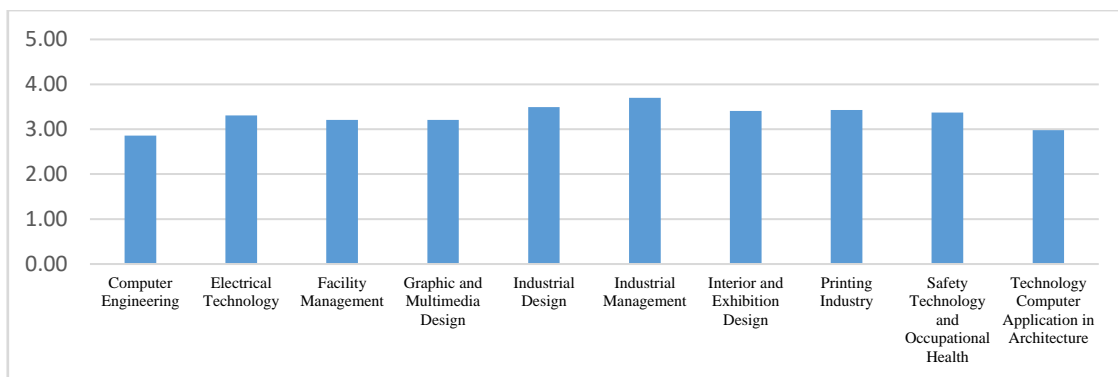

Figure 2 shown on internal education quality assurance performance Course level.

From figure 2, it can be seen that there are 8 program with good level quality assurance operations, namely industrial management courses with the highest average score (3.70), followed by industrial product design program (3.49), printing industry program (3.43), interior and exhibition design program (3.41), safety and occupational health technology program (3.37), electrical technology program (3.31), building resources management program (3.21), graphics design and multimedia program (3.21) for the program with moderate quality assurance performance, there are 2 courses, namely computer technology for architecture (2.98) and computer engineering courses (2.86) and if considered in the 3-year assessment cycle, courses with Trends of quality assurance performance are as follows:
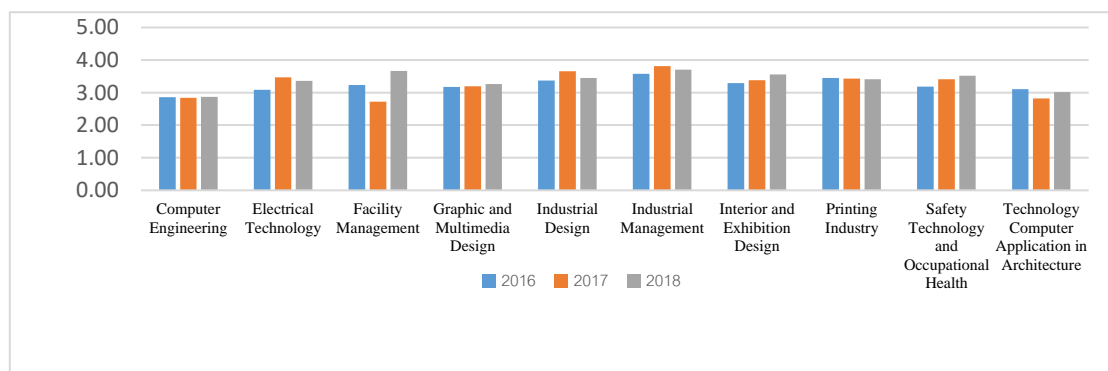

Figure 3 shown the Trends of internal education quality assurance performance.

From figure 3, it can be seen that there are 3 programs in quality assurance that have a continuous development trend, namely interior design and exhibition program, safety and occupational health technology program and graphic design and multimedia program.

DISCUSSION

From an analytical study of quality assurance performance at the curriculum level, it was found that the Faculty of Industrial Technology, There are 10 educational programs in total and all programs pass the standard criteria in Component 1 on Supervision of Standards. This indicates that the faculty members of the program faculty level university level has given importance to an efficient quality assurance management system all participants participated in planning management (Plan), operation (Do), check (Check) and improvement (Action), which is consistent with the research of Sasiwimon Ardkonghan (2012) that research Participation in educational quality assurance, Faculty of Nursing personnel Chulalongkorn University The research results found that Level of participation in educational quality assurance Faculty of Nursing personnel Chulalongkorn University The overall level is moderate. when sorting From descending to descending, the participation results are as follows. Operation performance auditing improvement and correction and planning, respectively. In addition, the results of the analysis of quality assurance performance showed that the programs with good quality assurance operations There is a score between 3.01-4.00 for 8 programs, namely industrial management program with the average of the highest scores, followed by Industrial product design program, Printing industry program, Interior and exhibition design program, Safety and occupational health technology program, electrical technology program, Building resource management program and graphic design and multimedia program. For those who have a moderate quality assurance performance, there are 2 programs: computer technology for architecture. and computer engineering program, From the analysis of all 10 programs, it can be seen that The internal quality assessment at the curriculum level consists of 6 components, but after studying the details of each component, it will be found that The second component is graduate quality. All courses have a very good level of quality (4.01-5.00). There will be two quality assessment results: Indicator 2.1 Quality of graduates according to the Thai Qualifications Framework for Higher Education. and indicator 2.2 the employment or research results of the graduates (Office of the Higher Education Commission, 2015 page 58)

The study of the trend of quality assurance operations found that in the 3-year assessment cycle, there are 3 programs that have quality assurance operations that tend to develop continuously, namely interior design and exhibition program, safety and occupational health technology program and graphic design and multimedia program. This shows that all 3 programs have a good work plan. There is a plan to improve the work by bringing the results of the assessment in the past year to make a work plan for the next year. In addition, program faculty members are aware of and participate in curriculum quality assurance. This is in line with the research of Panida Watchararangsi (2013) who studied the perception of and participation in educational quality assurance of personnel Higher education level, Nonthaburi area, which the research results showed that Higher education personnel had a high level of awareness and participation in educational quality assurance.

The development of quality assurance action plans according to the opinions of program faculty members found that program faculty members every curriculum considers that the curriculum's quality assurance implementation plan is appropriate, can be put into practice. which is consistent with the research of Parichat Jannuan and Therawat Jantuk. (2015). The Forecast Level of Success in The Management of the Internal Quality Assurance in Course Level of Suan Sunandha Rajabhat University, It was found that most of the instructors who responded to the questionnaire had an opinion on the implementation of internal educational quality assurance. Curriculum level of Suan Sunandha Rajabhat University Overall, it was in a very agreeable level (= 4.10), with the result being the number one (=4.13), followed by input (=4.09) and process (=4.08), respectively.

CONCLUSION

1. The results from the research can be seen that Component 1 Standardization 10 programs passed the standard criteria. Which indicates that the Faculty of Industrial Technology and disciplines have a management plan and course operations, especially personnel planning to meet the specified curriculum standards by the Office of Higher Education in all respects.

2. The results of the research can be seen that Component 2: Graduates found that all programs have a very good level of quality operations. In this second component, there are two issues to consider, namely, therefore, it can be concluded that the students who graduated from the Faculty of Industrial Technology in all 10 programs are of very good quality.

The researcher can make suggestions on the following issues:

1. Agencies related to curriculum administration should promote and allocate facilities for the curriculum related to teaching and learning management, and with constant maintenance to enhance the satisfaction of users to manage even more.

2. Faculties and disciplines the aforementioned issues should be used to create a public relations plan in all channels to promote decision-making in choosing to continue studying in the Faculty's programs.

3. Should accelerate the creation of understanding for all academic personnel to have knowledge. Understanding of financial strategic plans, this plan will be a map indicating the sources and uses of the agency's financial resources, institutions, both in terms of the national budget income budget off-budget money and institutional accumulations. It must be consistent with the institution's strategic plan and contribute to the success of the institution's strategic plan. It also requires analysis, forecasting, income and operating expenses of the company. The institution reflects the financial potential of that institution. The results of the analysis in Component 3 Indicator 3.1 Faculty of Industrial Technology, Suan Sunandha Rajabhat University It will be found that some programs have a number of students that do not correspond to the student acceptance plan.

ACKNOWLEDGEMENTS

Faculty of industrial Technology of Suan Sunandha Rajabhat University for their questionnaire responses. Utilization of the current research results will be ensured.

REFERENCES

Parichat Jannuan and Therawat Jantuk. (2015). The Forecast Level of Success in The Management of the InternalQuality Assurance in Course Level of Suansunandha Rajabhat University, Graduate Studies Journal: Suan Sunandha Rajabhat University. 2 (2), 164-181.

Panida Watchararangsi. (2013). Perception research report. and participation in educational quality assurance of Higher Education Personnel, Nonthaburi District. Nonthaburi: Ratchaphruek University.

Phawana Kittiwimolchai and others. (2008). Research report on the efficiency and effectiveness of quality assurance at Khon Kaen University. Khon Kaen: Khon Kaen University.

Sasiwimon Atkonghan. (2012). Participation in educational quality assurance for Faculty of Nursing personnel. Chulalongkorn University Bangkok: Chulalongkorn University.

Somkiat Korbuakaew. (2017). Production Management and Operations. Bangkok: Faculty of Industrial Technology, Suan Sunandha Rajabhat University.

Office of the Higher Education Commission. (2015). Manual for internal educational quality assurance. Higher Education Level 2014. (1st edition). Bangkok: Printmaking Limited Partnership.