

# Supply Chain Pattern in Digital for Higher Education Management According to Education Criteria for Performance Excellence

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**Abstract**— The research aims to develop supply chain pattern in digital for higher education management according to education criteria for performance excellence and evaluation of supply chain pattern in digital for higher education management according to education criteria for performance excellence. A sample group consisted of ten experts in the field of supply chain. Data analysis was the average mean and standard deviation. The research was found that the supply chain pattern in digital for higher education management according to education criteria for performance excellence consists of six components namely main suppliers, Manufacture, excellence university, Customers, Satisfaction, feedback. The results from ten experts agreement supply chain pattern in digital for higher education management according to education criteria for Performance excellence was a high level. It showed that the pattern is appropriate and applicable to real practice.

**Keywords**—Supply chain pattern in digital, higher education management according to education criteria for performance excellence

## 1. Introduction

The institution One of the best management approaches is excellence, which is built on a broad range of fundamental ideas and ideals. These procedures provide a standard for how a top-tier organization ought to function. These models were created and are still being improved by in-depth research on the methods and principles used by the greatest performing organizations in the world. BE focuses on attaining excellence across the board for an organization (including leadership, strategy, customer focus, information management, people, and processes), with the primary goal of maximizing financial performance. The Operation Excellence method results in little to no inventory, great quality, and little waste in an organization. Double digit cost reductions in floor space, inventory, labor, lead-time, and process waste are extremely likely after this effort is finished. The in supply chains, services, manufacturing, and digital. Solutions for obtaining and maintaining "excellence" in universities are provided by

operations management. For obtaining university excellence, it describes how to design and enhance procedures in accordance with client requirements. The most crucial area of university excellence is human resource management, which necessitates ongoing performance evaluation and strategic planning for the university's future workforce.[22] digital in supply chain is a key process to support the university whole activities system from upstream to downstream. digital in supply chain enables the university to promptly check the data that the university operates smoothly based on the decided strategies. [1], Researcher has decided to develop supply chain pattern in digital for higher education management according to education criteria for performance excellence for use in applications that will boost consumer pleasure.

## 2. Literature review

The process of establishing educational quality standards and conducting assessments to ensure compliance is known as quality assurance. [19] Internal quality assurance refers to standards for evaluating the calibre of instruction within the context of the university mission, including graduate production encompassing academic services, academic research, and cultural preservation. Any procedures and techniques that are connected to quality, both at the systemic and instructional levels in higher education institutions, can be referred to as quality assurance. Guarantee of ASEAN University Network's quality (AUN-QA) AUN-QA guidelines indicate that the department must adhere to teaching methodologies and evaluate quality indicators when developing curriculum. To make the program better, it should have a course map that displays the appropriate ratio of content, skills, and courses, as well as experts who are anticipated to produce learning outcomes, and it should use teaching strategies connected to numerous assessment techniques. [23] AUN-QA requirements include the existence of a university that is a part of a large nation and that has a national strategy for enhancing the standard for competitiveness of the nation. As a result, it is

imperative to try to strengthen and expand both current and future roles. Producing graduates with teaching and learning standards that are up to par with college requirements is one method to enhance the quality of education. They can start by making each school project's curriculum better. [24] The ASEAN University Network (AUN-QA) quality control model and standards are a quality control model that do not specify the method of action for such course. 4 The supply chain consists of key points, including: 1) suppliers, which are defined as those who submit building resources to connect units such as producing quality graduates for society, etc., 2) manufacturers, which are defined as those who produce the goods, and 3) A distributor is a location where goods are sent to the center's customers or consumers. Products from numerous organizations, like colleges and universities may be included in one product distribution. Graduates will be graduating from numerous universities. 4) Sellers or customers refer to the point in the supply chain when goods or services must be consumed up to the point where their value is expended, without further enhancing them. [23]

Verma and Boyer noted that the logistic chain's commercial enterprises will cooperate to transform materials into products and distribute them to users. between enterprises that will be physically and digitally connected.

Kaewngam,, Chatwattans, & Piriyaawong.(2019) aim to write the article about Supply Chain Management Model in Digital Quality Assurance (AUN-QA) The two primary objectives of this study were to build a supply chain management model for digital quality assurance for the ASEAN quality assurance network (AUN-QA) and to determine whether the model is appropriate. Five professionals with expertise in communication and information technology for education and quality control of the ASEAN university network made up the sample group. The typical mean and average deviation in data analysis. According to the research, the supply chain management model has six parts: applicants, universities, graduates, employers, customer satisfaction, and input. (2) The conclusions reached by professionals agreement of the supply chain management model was a high level. It showed that the supply chain management model could be used to develop digital quality assurance for AUN-QA.

Chansamut (2021) aim to write the article about Supply Chain operation Model in Digital for Curriculum Management Based on Thailand Qualifications Framework for Higher Education framework is crucial for the model's efficacy and for its implementation in real-world workplace situations. Review of supply chain management and digital literature in higher education institutions. Seven key elements make up the

digital supply chain operating model: raw materials, suppliers, universities, finished goods, and customers., Satisfaction , Feedback. The objective of this research was to develop and evaluate the supply chain operation model in digital for curriculum management base on Thailand qualification framework for higher education. The sample are fifteen experts selected by purposive sampling. The data is analyzed by means and standardized deviations. The measurement and the evaluation of model are based on Black-Box Testing, which is the test of total system function in order to see whether the working procedures are correct and in compliant with the desired objectives or not. All experts, after evaluating the model, agreed that supply chain operation model in digital for curriculum management base on Thailand qualification framework for higher education was appropriate in a good level. Supply Chain is the key business processes from end user through original suppliers that provides products, services, and information that add value for customers.

Chansamut (2022) aim to write the article about Supply Chain Management Information Systems Model for Educational Management for ASEAN University Network Quality Assurance at Institution Level is the goal of the research. Ten experts made up the sample group for the study, including three information technology experts, two curriculum experts, and five supply chain experts. The study's conclusions demonstrate that there are five primary components in Supply Chain Management Information Systems Model for Educational Management for ASEAN University Network Quality Assurance at Institution Level: suppliers, universities, customers, and consumers. Results of the 10 experts' evaluations suggest that the Supply Chain Management Information Systems Model for Educational Management for ASEAN University Network Quality Assurance at Institution Level received an evaluation rating mean of 3.74 and standard deviation of 0.65.for educational management for ASEAN University Network Quality Assurance at the institutional level, thatSupply Chain Management Information Systems Model for Educational Management for ASEAN University Network Quality Assurance at Institution Level is appropriate at the highest level and suitable for use in actual work situations

Chansamut (2022) aim to write the article Supply Chain Pattern in Digital for Research Management for ASEAN University Network Quality Assurance. the study of supply chain pattern in digital for research management for Asian university network quality assurance. The goal of the research is to build a supply chain pattern in digital for research management for Asian university network quality assurance. The sample group was composed of fifteen subject matter experts in supply chains, research, and

information systems. The data are statistically examined using means and standardized deviations. The study's findings demonstrate how to manage digital supply chains for research and ensure the quality of Asian university networks. consists of 5 essential components, including: 1) major components 2) Vendors university; customers; and 5)consumer. The supply chain pattern in digital for research management for Asian university network quality assurance reports from specialists were of a high calibre. It shown that the jobs may be developed using the supply chain pattern in digital research management for Asian university network quality assurance.

**3. Research Methodology**

3.1 Analyse and synthesize document about supply chain pattern in digital for higher education management according to education criteria for performance excellence

3.2. Develop and make the forms about supply chain pattern in digital for higher education management according to education criteria for performance excellence for assessment the pattern.

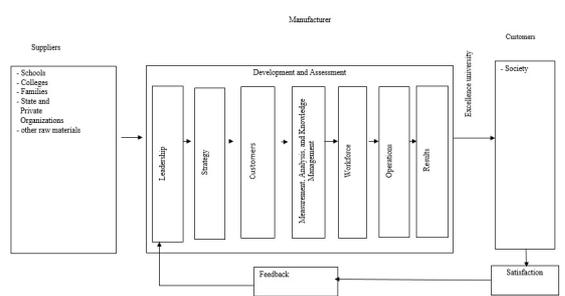
3.3. Evaluate supply chain pattern in digital for higher education management according to education criteria for performance excellence by ten specialists in the field of supply chain.

3.4 Analysed to find the mean and standard deviation.

3.5 Final improvement of the pattern based on suggestions from specialists

**4. Results**

4.1 Results on supply chain pattern in digital for higher education management according to education criteria for performance excellence are presented in figure 1



**Figure 1:** Supply chain pattern in digital for higher education management according to education criteria for performance excellence

4.2 Explanation on Components about supply chain pattern in digital for higher education management according to education criteria for performance excellence

**1 Suppliers**

suppliers of the student (high school/college), suppliers of the family (parents, siblings), friends, etc., suppliers from public and private

organizations (scholarship), and other building materials. The suppliers are the businesses that provide the company with raw materials. They can apply for entrance using a computer network that can securely store.

**2 Manufacturer**

Manufacturer mean university is viewed as a service provider. It serves the responsibility of converting raw materials into elite universities. According to the recorded an improvement for performance excellence of each activity, namely, Leadership, Strategy, Customers, Measurement, Analysis, and Knowledge Management, Workforce, Operations and Results.

**3. Excellence university**

Excellence university in the classified as follows:

1 Government/Nonprofit Excellence Framework: Focuses on fulfilling university.

2 Education Excellence Framework focuses on strategies for fully achieving and maintaining high performance among university staff as well as students.

3 Health Care Excellence Framework: This approach is used by providers, clinics, hospitals, and major care facilities since it is center on increasing safety, results, and reduced costs..

4 Service Excellence Framework: Emphasizes service universities.

5 Small Business Framework: Target businesses and rural areas with your efforts.

6 Manufacturing Framework: Concentrates on assisting the manufacturing sector includes producers from all other sectors of industry.

4. Consumers: The consumers mean The end-of-process about digital Supply chain pattern in digital for higher education management according to education criteria for performance excellence is what the term "consumers" refers to. These include businesspeople and society at large. The outstanding university will finally

5. Satisfaction: Satisfaction refer to prizes for outstanding achievement.

6 Feedback: Feedback is data retrieved from satisfied customers. [1],[2],[3][4],[5],[6],[7],[8],[9],[10],[11],[12],[13],[14],[15],[16],[17],[20],[21],[22],[26].

**Table 1:** Results for evaluation about supply chain pattern in digital for higher education management according to education criteria for performance excellence

No.	Items	$\bar{X}$	S.D.	Suitability
1	Main elements	3.63	0.64	High
2	Suppliers	3.68	0.65	High

**Table 1:** (Cont.)

No.	Items	$\bar{X}$	S.D.	Suitability
3	Manufacturer	3.68	0.66	High
4	Excellence university	3.60	0.51	High
5	Consumers	3.70	0.67	High
6	Satisfaction	3.70	0.67	High
7	Feedback	3.60	0.69	High
	<b>Total</b>	3.65	0.64	High

Table 1 shows ten specialists conclude about supply chain pattern in digital for higher education management according to education criteria for performance excellence is highly appropriate ( $\bar{X} = 3.65$ , S.D. = 0.64).

## 5 Conclusion

Supply chain pattern in digital for higher education management according to education criteria for performance excellence is considered to be high appropriate ( $\bar{X} = 3.65$ , S.D. = 0.64) which means that that the pattern is appropriate and applicable to real practice.

## 6 Discussion

Supply chain pattern in digital for higher education management according to education criteria for performance excellence is considered to be high appropriate ( $\bar{X} = 3.65$ , S.D. = 0.64), and the design was corresponds to the research of Chansamut and Piriyasurawong has studied supply chain and information system about educational [1] In addition, with the study of chansamut suggesting that supply chain and information system also. [2],[3],[4],[5],[6]

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