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Factors Influencing Systematic Thinking Mechanisms in Islamic Education: System Model, Development, and Control

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Abstract: Factors that influence Systemic Thinking in Islamic Education, System Model, Development and Control are scientific articles in literature studies within the scope of the field of science. The purpose of this article is to build a hypothesis of the influence between variables that will be used in further research. Research objects in online libraries, Google Scholar, Mendeley and other academic online media. The research method with the research library comes from e-books and open access e-journals. Qualitative descriptive analysis. **Results** this article: 1) Factors that affect the mechanism of Systemic Thinking 2) Factors that affect the System Model 3) Factors that affect Development and 4) factors that affect control.

Keyword: Systemic Thinking, System Model, Development, and Control

INTRODUCTION

Background of the problem.

Every student, whether Undergraduate, Undergraduate or Undergraduate, must conduct research in the form of a thesis, thesis and dissertation. Likewise for lecturers, researchers and other functional staff who actively conduct research and create scientific articles for publication in scientific journals.

Scientific work is one of the requirements for students to complete their studies at most universities in Indonesia. This provision applies to all levels of education, namely undergraduate thesis (S1), undergraduate thesis (S2) and third-level dissertation (S3).

Based on the empirical experience of many students and authors who have difficulty finding supporting articles for their scientific work as previous research or as relevant research. Relevant articles are needed to strengthen the theory being researched, to see the relationship or influence between variables and build hypotheses. This article discusses the factors that influence Systemic Thinking in Islamic Education, Systems Models, Development and Control of a literature review study in the fields of science.

Based on the background, the purpose of writing this article is to build a hypothesis for further research, namely to formulate: The results of this article: 1) Factors that influence

the mechanism of Systemic Thinking 2) Factors that influence system models 3) Factors that influence Development and 4) Factors affecting control.

METHOD

The method of writing this Literature Review article is the Qualitative Descriptive method and Library Research, sourced from the Google Scholar online application, Mendeley and other online academic applications.

In qualitative research, literature review must be used consistently with methodological assumptions. This means that it must be used inductively so that it does not direct the questions posed by the researcher. One of the main reasons for conducting qualitative research is that it is exploratory in nature, (Ali, H., & Limakrisna, 2013).

RESULTS AND DISCUSSION

Results

Based on the background, objectives and methods, the results of this article are as follows:

Systemic Thinking

In a world that is evolving to a new civilization level that is of higher quality than the previous level of civilization. A new paradigm is needed regarding the way humans view world problems that will determine the steps to be taken to solve them. This can happen if all human beings work together towards this change. The system way of thinking is one of the approaches needed so that humans can view the problems of this world in a more comprehensive manner and thus decision making and action choices can be made more oriented towards sources of problems that will change the system effectively (Hidayatno, 2016).

Ackoff explained that Systemic Thinking is a way to understand complex systems by analyzing the parts of the system to then find out the pattern of relationships contained in each element or elements making up the system. In principle, systemic thinking combines two thinking abilities, namely analytical thinking skills and synthetic thinking skills (Ackoff, 1994b).

There are several terms that we often encounter that bear similarities to systemic thinking, namely Systematic thinking, Systemic thinking, and Systems thinking. If examined, all of these terms stem from the same words, namely "system" and "thinking", but show different connotations, because they have different purposes (Galea et al., 2010).

Systematic thinking, meaning thinking about everything based on a certain method framework, there is a sequence and decision-making process. Here required obedience and discipline to the process and method to be used. Different thinking methods will produce different conclusions, but all of them can be accounted for because they are in accordance with widely recognized processes (Wächter, 2011).

Thinking systemically (systemic thinking), its meaning is to seek and see that everything has an orderly pattern and works as a system. For example, if we look at the brain, we will imagine the nervous system in the human or animal body. If we look at the heart, we can imagine the circulatory system throughout the body. Meanwhile, systemic thinking is realizing that everything interacts with other things around it, even though formally-procedurally it may not be directly related or spatially it is outside a certain environment. Systemic thinking emphasizes more on the awareness that everything is related in a series of systems. This way of thinking is opposite to fragmented-linear-cartesian thinking (Hürlimann & Hürlimann, 2009)

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System Models

A system is a complex or organized whole, a collection or combination of things, parts, or elements that form a whole and complex whole or whole (Ackoff, 1994a). However, the system consists of a number of elements that are related to each other and perform certain functions, according to Salamun (2017).

The system concept at least includes the understanding that there are components or parts that make up a unit, and have a common goal that will unite one another. As a result, each element relates to one another, or relations, based on agreed rules of the game. Entire systems, or elements, have boundaries that separate them from other systems. In line with the opinion above, Banathy argues that systems theory is an organized expression of a collection of interrelated concepts and principles that apply to every system.

There are two different ways to describe the system (Banathy, 2013). The first is a systems approach that places more emphasis on procedures, by describing the system as a network of interconnected procedures that gather to perform tasks or achieve certain goals. The second is the component or element approach, which describes the system as a network of interconnected procedures. According to this definition, a system must have several things: unity or roundness, components or parts (sets), relationships (internalization), goals, and functions. In addition, the system must have clear boundaries. However, a model can be described as representing a group of entities that have the same focus.

Therefore, the system model is one type of imitation of the real world which is described in a simple chart which is an operational idea of a process that shows the flow from the initial input to the output.

Development

The concept of epistemology of Islamic education is still an intellectual debate about Islamic education which is looking for its ideal formulation. When conducting research on the modernization and development of Islamic education, there will be many epistemological and theological obstacles. However, in Islamic education, there is a conflict that causes ambiguity between the necessary philosophical aspects and the theological aspects which seem rather difficult to let go of. In the study of Islamic religious sciences, this very small difference between philosophical and theological elements will be seen. This writing is closer to the epistemology of Arabic philosophy built by al-Jabiri.

The process of liberating epistemology and theological domination must be carried out to remove the epistemological freeze in the Islamic sciences. Thinking about transcendental things (nash) must be reversed one hundred and eighty degrees towards empirical thinking (Tabrani, 2013). A personal organization has a goal to be achieved. Sourceavailable resources are used to achieve these goals. Among the most important resources is human resources (HR). This is because to create quality education, especially in educational institutions, the human resources must also be of high quality (Priyatna, 2017).

Human resources are a very vital element in every organization, because the human resource factor is very dominant in organizational work processes, so to achieve organizational goals it is necessary to develop human resources to improve employee performance, skills, behavior and knowledge. In addition, changes that occur along with modernization both within the scope of the organization and outside the organization demands the development of human resources, so that as an investment in the organization, human resources play an important role in the growth of a nation.

So, as the main resource of the organization, giving full attention to human resources is very important. This is because dynamic employee placement does not always result in success, and changing environmental conditions require organizations to adapt and develop human resources to meet organizational needs (Priyatna, 2017).

Control

Indonesia has the ability to increase and improve education control. So, the question is how to apply the principles of management with the educational paradigm to develop quality management in the era of educational autonomy. The results of the study show an increase in quality through optimizing the functions and objectives of standardization: (1) National Education Standards serve as the basis for planning, implementing and supervising education to realize quality national education, (2) National Education Standards aim to guarantee the quality of national education to educate nation's life and form valuable character and civilization, and (3) National Education Standards aim to ensure that national education meets international standards.

Building a school according to its structure is easy, but building student character is not as easy as building an educational institution building. Evaluating the curriculum is an important way to control the education system. Hamalik emphasizes that educational institutions must consider a number of variables when implementing the curriculum; these variables greatly influence the implementation of the curriculum in the field (Mushafak, 2015)

There is no definite definition of quality. Several meanings function together. In education, quality is defined philosophically in at least two meanings: continuous improvement and analysis of areas of strength used for quality improvement in management actions to meet customer needs and expectations. educate." Desirable qualities for Islamic educational institutions are: (1) an emphasis on internal and external clients; and (2). There is total

involvement, standard size of graduates, commitment, and continuous improvement (Umam, 2020).

Relevant Article Review Results

Reviewing relevant articles as a basis for setting research hypotheses by explaining the results of previous studies, explaining the similarities and differences with the research plan, from relevant previous research as shown in table 1 below.

Table 1: Relevant Research Results

No	Authors (Year)	Previous Research Results	Similarities With This Article	The Difference With This Article	H
1	Fahrurozi (2021)	Factors Influencing the Education System Model Islam: Systemic Types, Systematic Construction, System Thinking	Factors Influencing System Models in Islamic Education	Factors Influencing systemic construction in Islamic Education	H1
2	Pattasang (2021)	Factors Influencing Systemic Thinking Mechanisms in Islamic Education: Planning, Development and Control (A Study of Human Resource Management Literature Studies)	Factors Influencing Systemic Thinking Mechanisms in Islamic Education: Development, and Control	Factors Influencing Planning in Islamic Education	H1
3	Nurhaida Selian (2021)	Systemic Thinking Factors in General (Systemic Thinking Factors in Making Decisions)	Factors Influencing Systemic Thinking Mechanisms in Islamic Education	Factors Influencing the System Model in making decisions	H2
4	Abdul Somad (2019)	Factors Influencing the Islamic Education System Model: Systematic Types, Systematic Construction, Systematic Thinking	Factors Influencing System Models in Islamic Education	Factors Affecting System Type, System Construction	H2
5	Sumarno (2020)	Factors Influencing the Islamic Education System Model: Systematic Types, Systematic Construction, Systematic Thinking	Factors Influencing System Models in Islamic Education	Factors Influencing Development, and Control in Islamic Education	H3
6	Fardinal (2022)	Quality of Islamic Education: Systematic Types, Systematic Construction, and Systematic Thinking	Factors Influencing Systemic Thinking Mechanisms in Islamic Education	Quality of Islamic Education: Systematic Types, Systematic Construction.	H3

Discussion

Based on the theoretical study, the discussion of this literature review article is to review relevant articles, analyze the influence between variables and conceptually think about a research plan:

Based on the results of the research, the discussion of this article is to review relevant articles, analyze the influence between variables and conceptualize the research plan:

The Effect of the System Model on Systematic Thinking in Islamic Education.

The system model in management refers to the approach or framework used to plan, organize, implement and evaluate the education system. It involves the use of certain concepts, principles, methods and techniques to organize and manage the educational process.

The definition of a system model in education management can include several aspects such as: Systems Approach, Strategic Planning, Organizing, Curriculum Implementation, Evaluation and Monitoring.

The definition of a system model in education management can vary depending on the context and approach used. The main goal is to create an effective, efficient and quality educational environment that can support the achievement of the desired educational goals.

The principles or concepts of a system model refer to the approach or framework used in building and operating a system model. A system model is an abstract representation of a real system that serves to understand, analyze, or plan the behavior of the system.

There are some general principles or concepts associated with the system model: systematics, deviation, emergence, feedback, hierarchy, dynamics, validation, and sensitivity to context. These principles and concepts help in building more representative and useful models for understanding, analyzing or planning complex systems.

The system model influences the systemic thinking mechanism, if the system model is well perceived, the systemic thinking mechanism will be well perceived, and vice versa. It can be explained that there are several ways in which the system model can influence the way we think systemically, as follows: 1). Understanding of System Concepts, 2). Introduction to Causal Relations. 3). Impact Analysis and Feedback, 4). Complex Problem Solving, and 5). Planning and Decision Making.

In conclusion, the system model has an important role in shaping our systemic thinking mechanisms. Systems models help us understand system concepts, recognize cause-and-effect relationships, analyze impacts, solve complex problems, and plan actions that consider consequences in the context of the wider system.

The factors that influence the system model vary depending on the type of system in question, be it a physical system, a computer system, or an organizational system. However, in general, there are several factors that can affect the system model, namely: system objectives, environment, interactions with other systems, variability and uncertainty, resource constraints, dependency and relationships between variables, available data, and availability of technology and analysis methods. These are just some of the factors that can affect the system model. It is important to consider these factors carefully when designing and developing a system model in order to produce useful and accurate results.

The System Model plays a role in the mechanism of systemic thinking, this is in line with research conducted by: (Fahrurrozi, 2021), (Nurhaida Selian, 2021), and (Abdul Somad, 2019).

The Influence of Development on Systematic Thinking in Islamic Education.

The definition of development is the process of planning, implementing, and evaluating activities aimed at improving the quality of the education system as a whole. Development in the context of education management covers various aspects, including curriculum, teaching methods, human resources, infrastructure, educational technology, and evaluation of learning outcomes.

Development in education management focuses on efforts made to improve and advance the education system in order to produce quality graduates, meet the needs of society, and be relevant to the demands of the times. The main objective is to increase the effectiveness and efficiency of education, so that students can achieve their best potential.

The principles or concepts of development in education management refer to the framework or guidelines used to manage and develop the education system effectively. These principles assist in the planning, implementation and evaluation of educational policies and practices aimed at improving the quality and outcomes of education.

These principles or concepts of development in education management form the basis for planning, implementing and managing an effective and sustainable education system. By applying these principles, it is expected to improve the quality of education and produce graduates who are ready to face future challenges.

Development affects the mechanism of systemic thinking, if development is well perceived then the mechanism of systemic thinking will also be perceived well, and vice versa. This can be explained that development can have a significant effect on one's systemic thinking mechanism. The following are some of the ways in which development can influence the mechanics of systemic thinking: increased understanding of systems, better analytical skills, recognition of patterns and trends, paradigm shifts, and the ability to manage complexity.

Overall, development can provide a strong foundation for building better systemic thinking mechanisms. It helps one understand and manage complex systems better, identify patterns and trends and make better decisions in contexts involving interactions between various elements in the system.

factors that influence on development can refer to various fields, such as personal development, organizational development, or product development. The factors that influence development can vary depending on the context. However, here are some general factors that often influence the development process, such as: resources, competence and knowledge, management support, market research and analysis, environmental changes, leadership and organizational culture, feedback and learning, and goals and strategy:

Development plays a role in the mechanism of Systemic thinking in line with research conducted by: (Pattasang, 2021), (Abdul Somad, 2019), and (Sumarno, 2020).

The Effect of Control on Systematic Thinking in Islamic Education

Control is the process of regulating or managing a system, situation, or activity to achieve the desired goal. In a general context, control involves monitoring, regulating, and adjusting the variables that affect a system or activity. The purpose of control is to maintain consistency, efficiency and sustainability in various aspects of life, be it in business, industry, technology or even in everyday life. In general, control is an important aspect in various fields of life and functions to maintain order, effectiveness and sustainability of a system or activity.

Control principles or concepts are the guidelines or rules used in designing and implementing control systems. This control concept relates to how to regulate and manipulate the input and output in a system with the aim of achieving the desired results. The principles or concepts of control in management refer to the guidelines or rules used in managing and

controlling organizational activities to achieve the set goals. Control is an important management function, which involves monitoring and evaluating organizational performance and taking corrective action if necessary.

Control affects systemic thinking in Islamic education if control is perceived well then systemic thinking will also be perceived well, and vice versa. This can be explained that control is very influential on systemic thinking in Islamic Education which can include several important aspects. The following are several factors that can influence systemic thinking in the context of Islamic education: curriculum, teaching methods, learning environment, literature and learning resources, and fostering critical thinking.

By paying attention to these factors, Islamic education can provide a solid basis for students to understand and apply religious teachings systematically and as a whole. This helps students to think systemically and see the relationship between various aspects of life within the framework of a holistic understanding of Islam.

Factors that influence control can refer to various contexts, such as control in organizational management, control in technical systems, or control in a psychological context. Factors influencing control can vary depending on the specific context. For example, in the context of technical controls, factors such as system design, fault tolerance, or component reliability can be influential. Meanwhile, in the context of psychological control, factors such as internal motivation, emotion regulation, or individual perceptions of control can be important considerations.

Control plays a role in Systematic Thinking, this is in line with research conducted by: (Pattasang, 2021), (Abdul Somad, 2019), and (Sumarno, 2020)

Conceptual Framework for Research

Based on the formulation of the problem, discussion and relevant research, the conceptual framework of this article is processed as shown in Figure 1 below.

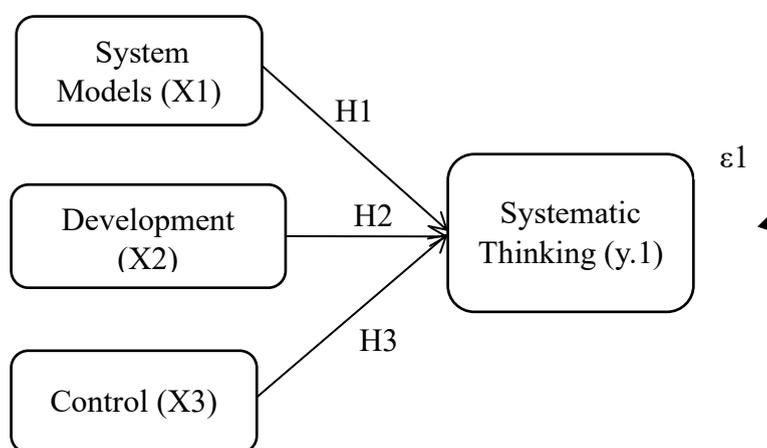


Figure 1: Conceptual Framework

Based on the conceptual framework above, then: System Model, Development, and control effect on Systematic Thinking. Apart from the three exogenous variables that are influencing Systematic Thinking, there are many other variables, including:

- 1) System Construction: (Ali et al., 2021), (Arifianto, 2016), And (Fahrurazi and Rosyadi 2021)
- 2) Decision-making: (Lipulsari, 2013), (Sri Wahono & Ali, 2019), And (Narti, 2019)
- 3) Education Quality: (M & Ali, 2017), (Ali & Fadhli, 2017), And (Kuntoro, 2017), (Arifiannto, 2015; Fahrurazi & Rosadi, 2021; Kuntoro, 2019)

CONCLUSION

Based on the objectives, results and discussion, the conclusions of this article are to formulate hypotheses for further research, namely: 1) Reword strategy affects work motivation; 2) Performance Management influences work motivation. and 2) Remuneration affects work motivation.

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