



Model of the Independent Learning Campus Internal Quality Assurance System Program based on Artificial Intelligence

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Abstract

Research on models of internal quality assurance systems in tertiary institutions online and digitally based on artificial intelligence in supporting the Merdeka Learning Campus Merdeka program in accordance with the cycle of determination, implementation, evaluation, control and improvement. The system is supported by an artificial intelligence approach to determine the implementation and achievement of the Merdeka Learning Campus Merdeka standard and to help universities detect early the impact of the implementation of Merdeka Learning Kampus Merdeka on the development of student competence. The implementation of the Merdeka Learning Campus Merdeka program is recorded in a database with cycles of Determination, Implementation, Evaluation, Control and Improvement to analyze compliance with the establishment, implementation, evaluation, control and improvement of standards for one cycle each year. At the evaluation stage, standard achievement will be produced whether it exceeds, is achieved or deviates to be followed up at the control and improvement stage. With this application, it helps tertiary institutions carry out the standards for the Merdeka Learning Campus Merdeka program standards to be carried out and developed according to the cycle of Determination, Implementation, Evaluation, Control and Improvement.

Keywords: Independent campus learning e-quality assurance system model

1. Introduction

The Model of the Internal Quality Assurance System for the Independent Learning Campus Independent Program Based on Artificial Intelligence, more specifically. Several models of quality assurance systems used in higher education include Total Quality Management (TQM), ISO 9000 series, European Foundation for Quality Management Excellence Model (EFQM), Balanced Scorecard (BSC), Malcolm Baldrige award, and SERVQUAL amongst others[1][2][3]. This research relates to the model of an internal quality assurance system in tertiary institutions by using online and digital information technology based on artificial intelligence in supporting the Merdeka Learning Kampus Merdeka program based on the Merdeka Learning Kampus Merdeka standard which is very useful for knowing the achievement of the Merdeka Learning Merdeka Campus special standard by following cycle of Determination, Implementation, Evaluation, Control and Improvement of MKBM standards so as to improve the quality of tertiary institutions [4]. Quality orientation in development life is something that is very urgent, must be supported and developed in order to respond to global competition trends [5]. This research is known and used to assist universities in implementing the Merdeka Learning Campus Merdeka standard in accordance with the cycle of Determination, Implementation, Evaluation, Control and Improvement, knowing the implementation and achievement of the Merdeka Learning Campus Merdeka standard to be improved every year, helping universities detect early the impact implementation of Merdeka Learning Campus Merdeka towards the development of student competencies, improving the quality of management of compliance standards with higher education laws and regulations, maintenance standards and increasing the number of interested parties, maintenance standards and increasing the number of graduates, standards for equality of graduate competencies within and outside the study program, standards facilitation of student learning outside the study program, standards for guiding lecturers outside the study program, standards for financing study outside the study program and standard cooperation agreements between tertiary institutions in tertiary institutions in a planned and n sustainable. Link and match not only with the world of industry and the world of work but also with the rapidly changing future. Higher education institutions are required to be able to design and carry out innovative learning processes so that students can achieve learning outcomes including aspects of attitude, knowledge and skills optimally and always relevant[6]. The main tasks of tertiary institutions, which are better known as the Tri Dharma of Higher Education, namely: education, research, and community service[7].

2. Methodology

Several previous studies related to quality assurance have also been disclosed, but there are still deficiencies in not discussing the implementation of the Independent Learning Campus Independent standard with the cycle of Determination, Implementation, Evaluation, Control and Improvement so that it cannot be known how the development and implementation of each standard, especially the Merdeka Learning Kampus Merdeka standard. Other research, as disclosed by layered matching, was carried out on textual information based on

identification information. However, this research still has weaknesses and limitations, which include that the system has not yet discussed the quality assurance system in higher education, but has used a system to record and collect data. information from each section that will serve as a knowledge base in supporting decision making on quality assurance in an agency. So in this research it is proposed to overcome the problems raised above by building a model of a higher education quality assurance system specifically for the standards of the independent learning campus independent program, starting with making and determining the Merdeka Learning Kampus Merdeka standard which includes compliance standards with higher education laws and regulations , standards for maintaining and increasing the number of interested people, standards for maintaining and increasing the number of graduates, standards for equality of competence of graduates within and outside the study program, standards for facilitating student learning outside the study program, standards for guiding lecturers outside the study program, standards for financing study outside the program studies and standards of cooperation agreements between universities.

3. Results And Discussion

The main objective of this research is to overcome the pre-existing problems, especially the model of the Independent Learning Program Independent Campus Program based on Artificial Intelligence, where an Application of the Internal Quality Assurance System System for the Independent Learning Program Independent Campus Based on Artificial Intelligence according to this research consists of three, namely

1. Create a standard formulation of the Independent Campus Learning Program as a knowledge base for the application system.
2. build an application for the implementation of the Merdeka Learning Kampus Merdeka program based on artificial intelligence.
3. build an application for implementing the Merdeka Learning Kampus Merdeka standard program with a cycle of Determination, Implementation, Evaluation, Control and Improvement which is characterized by the application of the application of the Merdeka Learning Kampus Merdeka standard with a cycle of Determination, Implementation, Evaluation, Control and Improvement.

Another objective of this research is to help tertiary institutions implement the Merdeka Learning Kampus Merdeka program standards so that they can be implemented and developed according to the cycle of Determination, Implementation, Evaluation, Control and Improvement.

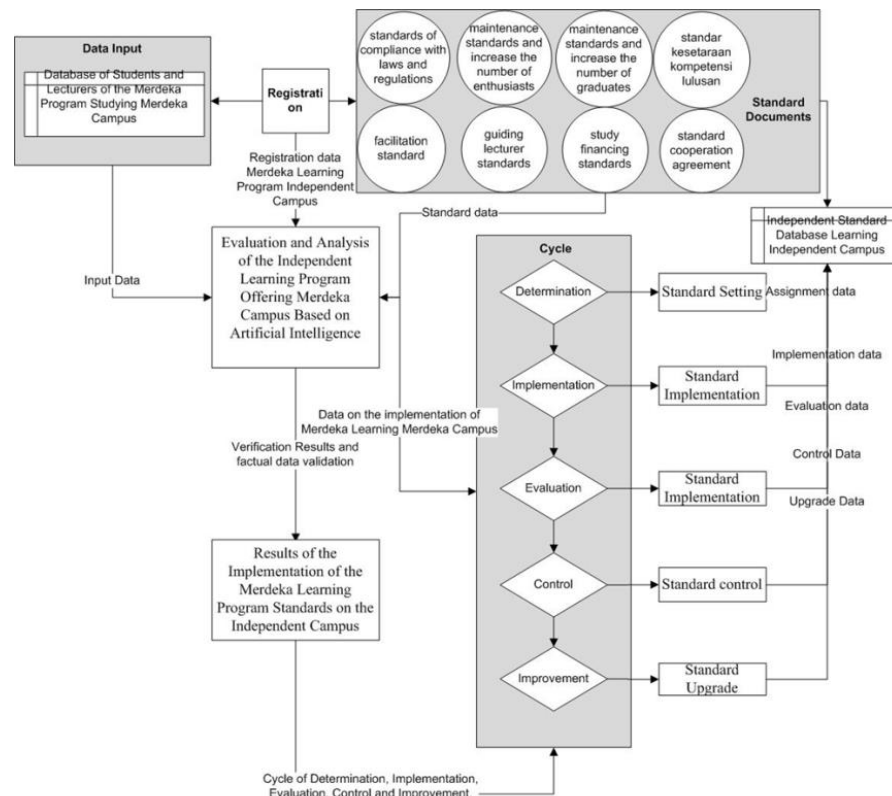


Fig 1. Perspective from the Application of the Independent Campus Internal Quality Assurance System Program

Referring to Figure 1, which shows a detailed picture of the complete Internal Quality Assurance System Application for the Independent Learning Campus Freedom Program Based on Artificial Intelligence, in this case Higher Education does not just seek to achieve learning outcomes, but education must prepare students to think critically with the values of life and choose the opportunities needed to be successful in the implementation of Merdeka Learning Merdeka Campus. In order to improve the quality of learning and higher education graduates, a quality assurance system application for the Merdeka Learning Campus program was built, the application consists of 3 parts namely the implementing unit includes the academic community of students and lecturers, the Merdeka Learning Kampus Merdeka standard database which records the Merdeka Learning Kampus standard documents Merdeka and the cycle of Determination, Implementation, Evaluation, Control and Improvement of the implementation of the Merdeka Learning Kampus standards. The academic community is supported by facilities for registration and offers of the Free Campus Merdeka Learning program including the Free Student Exchange Program, Certified Internships, Independent Studies, Humanitarian Projects, Research or Research, Building Villages (Thematic KKN), Teaching Campus Program. Registration for the Merdeka Learning Kampus Merdeka program by the academic community will be processed using an artificial intelligence approach, matching the program requirements with conformity

to the Merdeka Learning Merdeka Campus standards and considering areas of competence and academic administration. The implementation of the Merdeka Learning Campus Merdeka program is recorded in the database of the Establishment, Implementation, Evaluation, Control and Improvement cycles to be analyzed for compliance with the establishment, implementation, evaluation, control and improvement of standards for one cycle each year. At the evaluation stage, standard achievement will be produced whether it exceeds, is achieved or deviates to be followed up at the control and improvement stage.

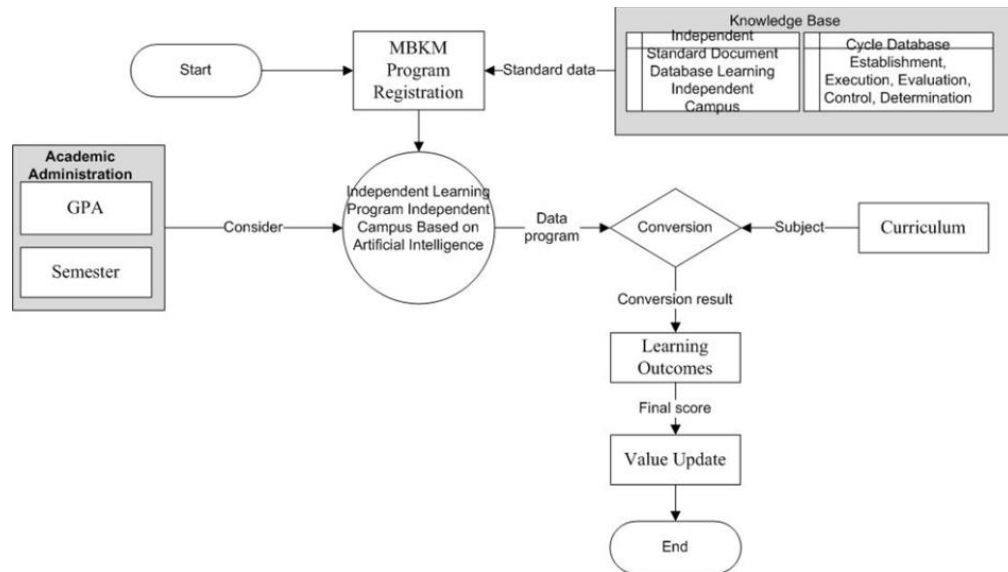


Fig 2. Block diagram of registration for the independent campus learning independent program

Referring to Figure 2, superior student competencies must be prepared along with the needs and developments of the times. Students and lecturers register for the Merdeka Learning Campus Merdeka program in accordance with the availability of the program based on the Merdeka Learning Merdeka Campus schedule. The implementation of the Merdeka Learning Campus Merdeka program is in accordance with standards and procedures and fulfills the elements of the requirements of each program. The Grade Point Average (GPA) and student semester level are one of the indicators in determining the selection of the Merdeka Learning Campus Merdeka program. The selection process uses artificial intelligence to provide recommendations for the Merdeka Learning Merdeka Campus program that is most appropriate according to the needs and abilities of students and lecturers in increasing the competence and profile of graduates. After the program is implemented, the course conversions are carried out according to the semester and study program competencies. The activities of the implementation of the Merdeka Learning Campus Merdeka program are recorded in the cycle of Determination, Implementation, Evaluation, Control and Improvement to see the achievement of each program.

Referring to figure 1 to figure 2, the quality assurance system model for the Merdeka Belajar Kampus Merdeka program is implemented online, where the standard documents Merdeka Learns Merdeka Campus are stored in a database as a guide and knowledge base in implementing the Merdeka Learns Merdeka Campus program, the other part is as a registration unit implementation of the Merdeka Learning Campus Merdeka program to provide opportunities for students to develop their potential. The results of the registration for the Merdeka Learning Campus Merdeka program are processed using an artificial intelligence approach to provide program recommendations that are in accordance with the Merdeka Learning Merdeka Campus standards. Each implemented program will be recorded in the Determination, Implementation, Evaluation, Control and Improvement cycle section to measure achievement every year and serve as evaluation material for the control and standard improvement stages.

From the description above it is clear that the results of this research can benefit tertiary institutions, students and lecturers because it practically and efficiently helps carry out the independent learning campus independent program in accordance with the Merdeka Learning Kampus Merdeka standards following the cycle of Determination, Implementation, Evaluation, Control and Improvement and This invention really presents a very practical improvement, especially in the Application of the Internal Quality Assurance System for the Independent Learning Campus Program based on Artificial Intelligence.

4. Conclusion

The implementation of the Merdeka Learning Campus Merdeka program is recorded in a database with cycles of Determination, Implementation, Evaluation, Control and Improvement to analyze compliance with the establishment, implementation, evaluation, control and improvement of standards for one cycle each year. At the evaluation stage, standard achievement will be produced whether it exceeds, is achieved or deviates to be followed up at the control and improvement stage. With this application, it will help tertiary institutions carry out the standards for the Merdeka Learning Campus Merdeka program standards to be implemented and developed according to the cycle of Determination, Implementation, Evaluation, Control and Improvement.

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