

# CMS Word Press-Based Curriculum Management Information System of Private Islamic College

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## Abstract

*This article aims to study the Information System of Private Islamic Higher Education Curriculum based on WordPress Content Management System (CMS ). Specifically, this study aims to explore: (1) The use planning of Management Information System (MIS) curriculum based on the WordPress CMS. (2) Implementation of MIS curriculum based on WordPress CMS, (3) Evaluation of the use of CMS based on WordPress MIS curriculum. (4) The concept of MIS curriculum design based on the Word Press CMS model. This research uses a qualitative approach with a case study of Management Information Systems curriculum in the Islamic Education Management, Study Program of Islamic Religion Institute Bunga Bangsa Cirebon. The research objects were the chairman of Islamic Education Management Education study program of Islamic College Bunga Bangsa Cirebon, Operator of Information Systems and models of application MIS Curriculum Word CMS used by MPI, IAI, BBC study programs. The results show that those Study Programs in Cirebon have used the MIS Curriculum design model based on CMS WordPress and have succeeded in facilitating students, lecturers, and stakeholders to access the curriculum of study programs more easily.*

**Key Word:** Management Information System , Content Management System, based on Word Press.

## 1. INTRODUCTION

The industrial revolution 4.0 is growing rapidly in all areas of life including education. Islamic Religious Higher Education is important to develop a better education management information system. Facing the era of the industrial revolution 4.0, higher education institutions are demanded to be able to develop educational licenses including curriculum licenses to improve the quality of education services. Generally, curriculum management at Islamic Religious Colleges (PTKI) in Indonesia has not used an adequate management information system.

Several PTKI curriculum studies have been conducted by a number of researchers, including: Alhamuddin (2016), examining the PTKI curriculum in terms of quality and relevance. The study concluded that: "there needs to be a clear frame of mind in developing Islamic higher education curricula to achieve the stated educational goals and implications for the quality of college graduates. About quality and relevance, Higher Education (PT) curricula must be developed referring to the Indonesian National Qualification Framework (KKNI) and SNPT (National Higher Education Standards), as stipulated in the implementation of KKNI and SNPT-based curriculum, the reality occurring in each PT varies due to understanding inadequate from all PT, especially in PTKI S (Private Islamic Religious Colleges) [1]

Suwadi (2016) examined the curriculum under the title Development of PAI Curriculum in Higher Education. The research reviewed the development of higher education curriculum by referring to the KKNI-SNPT paradigm of integration-interconnection in the PAI FITK Study Program of UIN Sunan Kalijaga Jogjakarta. The WordPress CMS research was carried out by P. Anjarkusuma & Bambang (2014) who examined the use of the WordPress CMS application to design *websites* as a promotional media on *Maroon Wedding* Malang. The research aims to increase company promotion by using a *website*. The study concluded that the website using WordPress has a fairly good development, the *website* has an attractive appearance and is easy to use so that users are not confused in its operation. [2]

Generally higher education curriculum research is focused on developing and developing curriculum based on KKNI and SNPT. In contrast to other studies, this study reviews the use of curriculum management information systems used by PTKI. PTKI curriculum research in terms of management information systems in Indonesia is still limited in number. Many universities in Indonesia have not utilized the curriculum as a service to students. Considering that a *website* using WordPress CMS is seen as easy and interesting, this research is focused on examining the implementation of PTKIS based CMS WordPress curriculum in the Islamic Education Management Study Program of the Islamic Institute of Bunga Bangsa of Cirebon (BBC MPI Study Program IAI). Islamic Religious Colleges can actually follow the development *trends* of information and communication technology. Characteristics of technological developments in the industrial revolution era 4.0, including digitalization, optimization, production customization, automation and adaptation, *human machine interaction, value added services and businesses, automatic data exchange and communication*, and integrating the use of internet technology [3]. In facing the era of disruption of information and communication technology there are 51 state universities (PTN) who are ready to implement non-face-to-face lectures, while PTS is still competing to improve conventional lecture processes towards a better direction. In developed countries, the development of *Cyber University* has been widely applied in order to achieve better effectiveness and efficiency.

Information technology currently has experienced very rapid development. The development of information technology is able to improve performance and enable various activities to be carried out quickly, precisely, and accurately as well as increase the productivity of human work. One impact of the development of information technology is the emergence of various types of electronic-based activities, such as: *e-government, e-commerce, e-education*, and other activities [4].

Information technology is very influential in the world of education. This can improve the quality of education services to customers. Information systems can be called a network of interrelated procedures and are bound together to carry out a work process or to complete a certain activity or is a collection of elements that interact to achieve a predetermined goal. An institution's information system is used to determine the level of productivity and progress and activities that occur at the Institute [5].

The complexity of the organization requires the availability of a management information system that is able to help provide data and information to be used as material for determining development policies and strategies as well as providing operational data and information. Organizational data are processed in a system to be information that helps in decision making. Information systems in simple terms can be defined as a computer-based system that provides information for several users with similar needs.

The meaning and scope of the MIS rests on the three forming words, namely: "system", "information", and "management". The system is a collection of procedures that have relationships with each other that form a unity in an effort to achieve a goal. Information is data that has been processed through the system. Data obtained from each element of the system becomes an easily understood form. Management is a process or activity carried out by company managers such as planning, organizing, initiating, coordinating, and controlling operations to achieve the stated goals. Thus, the MIS as an information system that produces output (*output*) by using the input (*input*) and the various processes required to meet a specific objective in the management of an activity. [6].

Technology has a major impact on the learning process and educational services, including curriculum services for students. The contents contained in the curriculum must be known by

students so that curriculum information must be applied by educational institutions to improve service quality. Technology is not always expensive, MPI IAI BBC Cirebon study programs utilize WordPress CMS, a free version of the MIS web application to provide curriculum information system services to its students.

This study aims to explore and describe: (1) Planning for the use of the CMS WordPress-based curriculum MIS in the BBC Cirebon IAI MPI Study Program ; ( 2) Implementation of the use of CMS WordPress-based curriculum MIS in MPI IAI BBC Cirebon Study Programs; (3) Evaluation of the use of CMS WordPress based curriculum MIS on MPI IAI BBC Cirebon Study Program; (4) The concept of the design of the CMS WordPress curriculum-based MIS model at the MPI IAI BBC Cirebon Study Program.

Management information systems are interactions of an information system that presents information both for the benefit of operations or activities. Management information systems of data to illustrate the availability of a fairly complete set of information that is stored and presented in the form of other information to support the implementation, management, and decision making in an organization [7]. According to Stoner, a management information system is a formal way to present accurate and timely information to management that is needed to help the decision making process, and enables the functions of management to be carried out effectively [8].

Based on these opinions, the researcher concludes that the management information system is a system designed to process data into information to support decision making in management activities in an organization.

The Government through the Republic of Indonesia Presidential Regulation No. 08/2012 concerning the Indonesian National Qualification Framework (KKNI) requires that the PT curriculum is prepared in accordance with the framework contained in the KKNI. KKNI is a competency qualification selection framework which is applied to juxtapose, equalize, and integrate education and work training fields as well as work experience in order to provide recognition of work competencies in accordance with the work structure in various sectors [9]]. Permenristekdikti Number 44 of 2015 concerning *National Standards for Higher Education*) contains national standards of education, research standards and service standards for the community. The curriculum includes studies on national education standards.

## 2. RESEARCH METHOD

This study uses a qualitative approach, because it meets the characteristics of qualitative research, namely the condition of natural research objects. Researchers as the main instrument, are descriptive, more concerned with the process than the results, and the data collected is processed in depth. The data collected is not in the form of numbers, but the data comes from interviews, field notes, personal documents, memo notes, and other official documents. So that the aim of this qualitative research is to describe the empirical reality behind the phenomenon in depth, in detail and thoroughly.

The researchers describes or presents the data obtained relating to the management of PTKI curriculum information systems using CMS WordPress through the case study method in the MPI IAI BBC Cirebon study program . The data sources of this study are the Chair of the BBC Cirebon IAI MPI study program, the Management Information System Curriculum Management Program of the BBC Cirebon IAI MPI study program, and the WordPress CMS application used at the institute. Data collection uses observation techniques, documentation studies, and interviews. The data

obtained by researchers are processed in the results of the study then discussed and finally become conclusions. Analysis of research data is done by collecting data, reducing, and checking the validity of the data, presenting, and interpreting the data. The researcher arranges the data into themes and categories so that they can be interpreted and interpreted. Researchers are trying to arrange and process data to be truly meaningful.

### 3. RESULTS AND DISCUSSION

#### 3.1. Planning the use of a CMS WordPress based MIS curriculum

Planning is the process of anticipating and making provisions (requirements) to regulate the flow of source movements within the organization. Planning is a series of activities related to efforts to plan in anticipating the future [10]. This understanding shows that planning is an organizational activity that determines a number of actions to be taken in the future. BBC IAI MPI study programs in Cirebon, planning a CMS WordPress-based curriculum as a form of improving information services to students and responding to the development of the digital revolution 4.0 industrial information, which makes the use of digital data and IoT (*Internet of Things*) the reasons for the use of the MIS [11]. WordPress is one of the most popular media for creating *websites* in the form of personal blogs, *company* sites, educational sites, and even commercial sites such as *online* stores. WordPress first appeared in 2003 as the development of the *b-2/cafelog* application by Matt Mullenweg and Mike Little. Initially all WordPress focused on personal log media where Web content sorted chronologically developed into a CMS application that can be used to create *websites* outside of blogs, such as *online shops*, *corporate websites*, and educational sites. *WordPress* is currently included in the CMS (*Content Management System*) application. CMS is a system to publish, edit, modify, delete and organize contains centrally (wikipedia). The content in question is the article that will be the contents of the *website*.

CMS is software used to manage digital content. What is meant by digital are all forms of digital information, in the form of image files, audio, video, text, and other computer data. CMS is a web - based application that is implemented using a programming language that has web-based programming capabilities. CMS makes it easy to manage digital content so that *website* management can be done by laypeople who are not proficient in the field of information technology. Its use is SIM ilar to the use of social media.

CMS WordPress is an open source computer applications (open source) that is most popularly used as an engine blog (*blog search engine*). The application was developed with the PHP programming language and MySQL database. PHP and MySQL, both of these programming languages are *open source software* (*open source software*). Aside from being a blog, WordPress CMS also began to be used as a CMS (*Content Management System*) because of its ability to be modified and adapted to the needs of its users. WordPress CMS is the official successor of *b2/cafelog* which was developed by Michel Valdrighi. The name CMS WordPress was proposed by Christine Selleck, friend of Matt Mullenweg. WordPress CMS is currently a content management system (CMS) platform for several news sites such as CNN, *Reuters*, *The New York Times*, *Tech Crunch*, and others. [12].

CMS WordPress gives service of theme editor, so that CMS users are not required to learn language programming complicated to build *website*. WordPress has 4063 themes that can be applied to the user's web. From the theme there are available the free and paid versions. The free version only has a standard theme of digital data management. While the paid version provides more facilities with

additional applications that make web management easier. The availability of *plug-ins* or additional complete applications is the main attraction for WordPress for professionals.

Planning to use WordPress CMS as a web management application is based on a SWOT (*Strength, Weakness, Opportunity, Treat*) analysis conducted by MPI Study Program with the following analysis results: 1) Potential: (a) that MPI Study Program has already had a web which is a subdomain of the university web with the MPI address.iaibbc.ac.id; (b) the subdomain has been installed with the WordPress CMS application to save costs; (c) The study program has competent human resources in developing WordPress where the web management is handled directly by the study program secretary as the main admin. 2) The study program also identified weaknesses related to the development of the curriculum SIM, namely that some lecturers still had difficulty using the SIM. 3) MPI Study Program formulates opportunities that might be obtained, namely that: (a) the use of the curriculum can improve services to students that have an impact on student satisfaction; (b) MPI Study Program has the opportunity to disseminate MPI Study Program information through digital information in cyberspace. 4) Challenges identified by MPI study programs, namely: (a) Study programs have challenges to improve lecturer participation in the use of curriculum; (b) Lecturers still find it difficult to play an active role in collecting curriculum data and displaying curriculum documents.

The BBC IAI MPI Study Program also identified the reasons for choosing CMS Wordpress as a tool used for curriculum management information systems. The results of the identification of study programs for choosing the WordPress CMS are as follows: 1) The WordPress CMS has a non-paid version, thus providing cost efficiency. 2) WordPress has a *blogging editor* look so it doesn't need an editor that has programming language skills. 3) WordPress CMS has compatibility with *smartphones*.

Planning to use the WordPress MPI CMS contains MPI Study Program profiles, academics, lecturers, department development, department student associations, Gallery, and MPI Study Program libraries. Planning the use of the WordPress CMS-based curriculum in the MPI Study Program contains curriculum structure, the distribution of courses in the semester, the weight of credits, and the RPS.

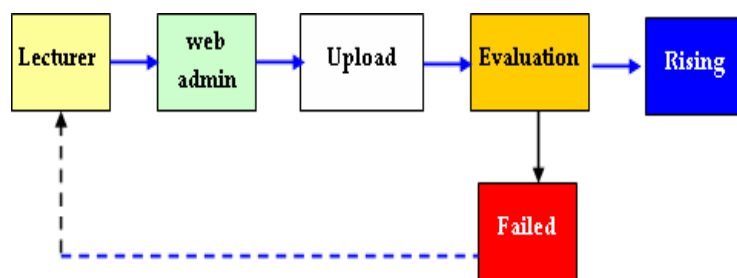
Planning the use of WordPress CMS-based curriculum in the MPI Study Program can improve the quality of academic services to lecturers, students, and education staff and support the achievement of the objectives of the MPI Study Program effectively and efficiently. The results of the analysis show that the planning of the Management Information System of the Curriculum MPI IAI BBC Cirebon Study Program has used the SWOT approach, Potesni analyzed including the availability of servers and web admins. Higher education has a larger component such as lecturers and students. Potential students in the millennial era have greater interest in using IT than the previous generation. This potential deserves a deeper analysis such as the analysis of the use of information systems and the types of smartphones used by lecturers and students. This is expected to be an input for planning and targets to be achieved.

### **3. 2. The Implementation of the Use of CMS WordPress -Based MIS Curriculum**

The word curriculum (*curriculum*) is derived from the Greek, which *curir* which means "runners" and *curere* which means "the place to race". The term curriculum is taken from the world of sports, especially in the field of athletics in Ancient Roman times in Greece. The curriculum can be interpreted as a trajectory that must be taken by a runner from the start line to the finish line to obtain victory. The trajectory is then adapted into educational activities in the school and everyone involved in it. The curriculum itself is a set of teaching subjects and educational programs that are applied to students by an educational institution within a period of Education [13].

The curriculum management information system in question is the implementation of the application as a support for the activities of management functions to support the achievement of the objectives and operational functions of educational institutions in managing the curriculum. With the existence of a curriculum management information system, educational organizations get the following benefits: First, the availability of a curriculum and data management information system. Second, the integration of educational data and information are to support the decision making process of learning activities. Third, there is a complete picture of education information available to all stakeholders joining the field of education. The curriculum management information system is used by its users as a tool for decision makers and by those who are its members so that members of the education organization can interact with stakeholders. The important values of curriculum management information systems as part of education MIS are: 1) Computer-based information systems enable the automation of routine activities. 2) Information technology enables data processing that is more accurate and reliable. 3) Decision making is supported by more objective alternative choices with complete supporting data. 4) Management activities need information quickly and efficiently. [14]. MIS Curriculum as a database management system MIS is an order (cohesiveness) consisting of a number of functional elements (computers) that are connected and bound together to carry out a particular process or work. This system is a combination of a database and a collection of programs or software called DBMS (Database Management System) [15].

The parties involved in the use of CMS WordPress-based curriculum MIS are lecturers, students, and education staff (operators / admin). The use of the WordPress CMS-based curriculum in the IEM Study Program involves all lecturers in uploading SLP (Semester Learning Plans), presenting teaching materials, determining learning resources, and determining the assessment of learning outcomes. SLP stored on the Web is used to be a reference for students and lecturers. Each lecturer makes a SLP with the study program's determined components. The SLP is submitted to the MIS operator in the form of a PDF *file* format. After the SLP is received, the operator uploads the SLP file so that it appears on the web page. The process of uploading SLP data to the WordPress CMS is as follows: 1) Admin executes the first login to the IEM study program webpage. 2) After logging in, the admin uploads the SLP PDF file received from the lecturer. 3) Admin creates new posts by attaching SLP files that have been uploaded using the pdf method embedder, so that the SLP file appears on the new post page in accordance with the title. The work flow of the issuance of SLP appears in the following figure:



**Figure.1 Flow of SLP issuance**

(Source of IEM Study Program Curriculum Document, 2019)

After the SLP is published, the information can be used by students and lecturers as a reference for lectures, regarding the achievement of graduate learning, lecture material, learning

resources used, and learning assessment. Implementation of the SLP issuance process is managed by the operator, which puts a lot of burden on the operator because the operator at the institute is the secretary of Study Program. Ideally the WordPress admin can create multiple accounts. The account can be given to each lecture and students so that all lecturers and students can participate directly contribute to write the content on Study Program information systems such as SLP, Students' assignments and other information related to Study Program. This can be applied if the IT skills of lecturers and students are already available.

WordPress was chosen as a curriculum management application because of the advantages offered by the application developer such as themes and additional applications that support the management of curriculum documents. Additional applications used on the web include, doc embedder, an additional WordPress application that is useful for managing PDF and docx type documents. With this application a web easily displays documents without downloading the file. Web Study Program also uses an additional application called Elementor. The application helps the admin to add buttons and web menus practically without making the programming language code. Another application is Instagram Gallery, the application is useful for connecting Instagram social media to the website. IEM IAI BBC Cirebon Study Program website only uses three additional applications, ideally a website uses 8-15 additional applications that can help manage the information system but of all the additional applications available on WordPress are not free, the owner must buy the application because some free applications are temporary in its use.

Web IEM IAI BBC Cirebon using the magazine theme which has two versions, the paid version and the free version. The version used on the IAI BBC Study Program IEM website Cirebon is the free version. The free version has limitations in managing views. The appearance of the web seems stiff and customizing the web becomes difficult to adjust. The SIM ilar CMS that can be used as an information system is Joomla CMS, the CMS has a free license as well as WordPress. However, CMS is difficult to use by ordinary users. The number of themes and plugins available is not as much as on WordPress. If the study program has an adequate competent IT HR, *joomla* is suitable to be a CMS as a replacement for WordPress because of its high compatibility so that *joomla* is easily adapted by web users.

### **3. 3. The Evaluation and Supervision of the Use of CMS WordPress CMS -Based MIS Curriculum**

The monitoring and evaluation function (*controlling*) is a tool for measuring and evaluating the results of plans planned for the first function, giving rewards to staff in accordance with the performance shown and designing and planning again while improving things that are not perfect. That is the cycle of the management process repeating over and over again continuously. The supervisory function has four elements, namely (1) setting implementation standards, (2) determining implementation measures, (3) real implementation measurement that is comparing with established standards, and (4) taking corrective actions needed if implementation deviates from the standards. [16] . .

Evaluation of the Use of CMS WordPress -Based MIS Curriculum in the BBC Cirebon IAI MPI Study Program is conducted to illustrate that there is a link between curriculum planning, curriculum implementation, and curriculum supervision. Curriculum supervision helps in ensuring that planning, organizing, and supervising the curriculum are well implemented.

Evaluation of the Use of CMS WordPress-Based MIS Curriculum on the BBC Cirebon IAI MPI Study Program is an evaluation of the use of its program. There are two types of evaluation on the use of MIS Curriculum in MPI study programs. These evaluations are evaluation of SLP content and evaluation of web systems. The Study Program sets several standards for the content of the SLP (Semester Learning Plan) that must be published. The standard used is the SMART standard (specific, measurable, achievable, realistic, time bond). The published SLP must be clear, use specific terms that describe the desired ability of knowledge, values, attitudes and performance, using action words or real verbs. SLP must have targets and results that can be measured or observed, so they can determine the time of their achievement by students. SLP must contain the desired ability target and the target is something that students can achieve in learning activities. SLP must demonstrate the desired student abilities, realistic, and relevant to be achieved by students. SLP has the allocation of time needed by students to achieve the desired abilities in a reasonable and directed manner. The study program sets standards for web curriculum information systems that place these standards on the web. The web must be easily accessible to users, compatible with all communication tools used by lecturers and students, and document security is maintained from plagiarism.

Evaluation of SLP content and MIS curriculum based on CMS WordPress is carried out by the Chairperson of MPI Study Program. The results of the evaluation of the SLP content are notified to the lecturer concerned so that there are improvements. As for the evaluation of the MIS Curriculum, it is notified to the admin/secretary of the department to be improved. The validation of the SLP is conducted by the head of the Study Program after the SLP document is completed. According to the evaluation theory three stages can be carried out, namely at the beginning, in the middle and at the end. The initial evaluation can be done on the SLP document after the lecturer has finished making it, while the evaluation can be done when the process of using the SLP is done, for example when lecturing the study program evaluates the SLP and provides notes on the evaluation results on the SLP content page on the study program website. The final evaluation can be done after the end semester using established standards and involve the students' opinion. The evaluation results can be added to the web page in the study program so SLP evaluation results can be documented and stored.

### **3. 4. The Model of CMS WordPress based MIS curriculum applications of MPI IAI BBC Cirebon Study Programs**

The study program applies basic concepts to the MIS curriculum design by determining the application used, the appropriate image format, text color selection, and the background of a web



page. The followings are some aspects that are considered in the Study Program SIM curriculum design, namely: 1) It can be run and used (usability). 2) The web is able to display curriculum documents quickly despite being accessed on a smartphone. 3) The web has two navigations, main navigation and additional navigation. The main navigation is the Home menu, profile, academic, lecturer, department development and gallery and library. Additional navigation consists of four menu buttons namely SLP MPI, MIS Curriculum, alumni network and MPI E-book as shown in Figures 2 and 3 below:

Figure.2 The display of the desktop version of the MPI IAI BBC home page (Source of Curriculum Document of the BBC, IAI, BBC Cirebon Study Programs) .



Figure.3 Display of the mobile version of the MPI F IAI BBC webpage (Source of the BBC IAI Study Program Curriculum Document , Cirebon , 2019)

MIS Curriculum MPI Study Program IAI BBC Cirebon also has a search menu, the menu is to facilitate searching on web content. If the user wants to find the SLP required, just type the name of the SLP, shown in the following pictures, 4 and 5:



Figure.4 Display of the desktop version of the SLP option menu (Source of Curriculum Documents MPI IAI BBC Cirebon )



Figure.5 Display the mobile version of the SLP selection menu

The SLP menu is loaded on the Web to facilitate navigation, users just select the SLP button required. After that it will go to the next page that contains SLP directly without downloading , shown in Figure 6 below: .



Figure.6 Display desktop version of PDF SLP (document source Curriculum IEM Study Program IAI BBC Cirebon )



Figure.7 Displaying the mobile version of the PDF SLP (document source Curriculum IEM Study Program IAI BBC Cirebon , 2019)

The SLP is published directly in the browser after the user chooses the intended SLP navigation. SLP which is a PDF type file is displayed directly without being downloaded, thus speeding up the file display process. If the user wants to download and save the file, the user can choose the navigation available under the SLP view so that the SLP will be downloaded and saved automatically

#### 4. CONCLUSIONS AND RECOMMENDATIONS

Besides some advantages, the use of CMS WordPress has a number of shortcomings to become a PTKI curriculum application including (a) Web design is limited to themes provided by WordPress developers, (b) Web admins who have web code capabilities cannot freely develop the CMS application, different with Joomla CMS which has high *compatibility*, that is, Study Program can freely create better designs and appearance. (c) Free themes are generally Simple, whereas themes with good quality have quite expensive prices.

WordPress CMS-based curriculum Management Information System at the Tarbiyah and Teaching Faculty of Islamic Education IAI BBC Cirebon in Management Study Program is carried out through a number of stages, namely planning, implementing, and evaluating the use and compilation of design concepts for CMS WordPress-based curriculum models. The parties involved in the use of the CMS WordPress CMS-based IEM IIR curriculum in Cirebon are lecturers, students, and education personnel (operators). In the planning stage, the lecturer prepares a SLP that is used as a lecture reference. Each lecturer made the SLP then the SLP was submitted to the MIS operator in the form of PDF format. After the SLP is received by the operator, the operator uploads the SLP file so that it appears on the web page. The Study Program sets several standards for SLP content that must be published, the standard used is the SMART standard.

The basic concept of curriculum design is applied to the IEM Study Program from *the 'tools'* used, the appropriate image format, to the selection of text colors and web page backgrounds. The web has two navigations, main navigation and additional navigation. The main navigation is the

Home menu, profile, academic, lecturer, department and gallery development, and library. Additional navigation consists of four menu buttons namely IEM SLP , MIS curriculum, alumni networking profiles, and IEM E-books. It is recommended that researchers further develop the effectiveness of the WordPress CMS-based curriculum MIS model at Islamic Religious Colleges.

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