

# Pedagogical Review of Edulogy LMS: Case Study on Indonesian Educational System

*by* Rizki Zakwandi

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# Pedagogical Review of Edulogy LMS: Case Study on Indonesian Educational System

Rizki Zakwandi<sup>1</sup>, Habibah Khusna Baihaqi<sup>2</sup>, & Jumadi<sup>3</sup>

<sup>123</sup>Magister Program of Physics Education, Faculty of Mathematics and Natural Sciences, Universitas Negeri Yogyakarta

e-mail: [rizkizakwandi.2020@student.uny.ac.id](mailto:rizkizakwandi.2020@student.uny.ac.id)

## Abstract: Pedagogical Review of Edulogy LMS: Case Study on Indonesian Educational System.

Learning Management System (LMS) is alternative learning that allows teachers and students to interact systematically. Besides, LMS also describes the digitalization solutions of the education system. This study aims to analyze the pedagogical aspects of LMS edulogy. The research method used is a case study on two LMS edulogy dashboards, namely the dashboard of the vice principal of curriculum and the dashboard of the teacher. Besides, user responses were also collected by distributing questionnaires to 144 teachers and 8 vice-principals of the curriculum. The results showed that the LMS edulogy was quite good at facilitating the vice principal of the curriculum and teachers in carrying out their duties. As many as 64.44% of the duties of the vice principal of curriculum and 60% of the duties of the teachers have been facilitated in LMS edulogy. Overall, the level of satisfaction at LMS edulogy is classified as good where 75% of the vice principal in the curriculum field are satisfied and 67.64% of the teachers are satisfied. The results of this study are expected to be a reference for the next development related to LMS and become a consideration for using LMS edulogy.

**Keywords:** Pedagogical analysis, Learning Management System, Edulogy

## Abstrak: Analisis aspek pedagogik lms edulogy: studi kasus pada sistem pendidikan di indonesia.

Learning Management System (LMS) menjadi salah satu alternative pembelajaran yang memungkinkan guru dan siswa berinteraksi secara sistematis. Selain itu, LMS juga menggambarkan solusi digitalisasi sistem pendidikan. Penelitian ini bertujuan untuk menganalisis aspek pedagogis dalam LMS edulogy. Metoda penelitian yang digunakan adalah studi kasus pada dua dashboard LMS edulogy yaitu dashboard wakil kepala bidang kurikulum dan dashboard guru. Selain itu, repon pengguna juga dikumpulkan melalui penyebaran angket kepada 144 guru dan 8 wakil kepala bidang kurikulum. Hasil penelitian menunjukan bahwa LMS edulogy cukup baik dalam memfasilitasi wakil kepala bidang kurikulum dan guru dalam menjalankan tugasnya. Sebanyak 64.44% tugas wakil kepala bidang kurikulum dan 60% tugas guru sudah terfasilitasi dalam LMS edulogy. Secara keseluruhan, tingkat kepuasan pada LMS edulogy tergolong baik dimana 75% wakil kepala sekolah bidang kurikulum menyatakan puas dan 67.64% guru menyatakan puas. Hasil penelitian ini diharapkan dapat menjadi rujukan pengembangan berikutnya terkait LMS dan menjadi bahan pertimbangan untuk menggunakan LMS edulogy.

**Kata kunci:** Analisis pedagogic, Learning Management System, Edulogy

## INTRODUCTION

Information and communication technology (ICT) has a significant impact on the development of the world of education. Innovations such as e-learning, learning management system (LMS), massive open online course (MOOC), to

the emergence of flipped and blended learning programs are a positive impact of the development of information and communication technology on the world of education. (Omar & Yaacob, 2020; Pickering & Swinnerton, 2017; Zheng et al., 2018). The novelties produced are in line with the vision and mission of national education which is outlined in the 2013 curricu-

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lum structure (K-13). K-13 emphasizes the use of integrated ICT in learning (Dilson et al., 2020; Maria & Sediyo, 2017). This aims to adapt to learning to the current situation and conditions.

The majority of developers, in their development, tend to make practical innovations. The development of the LMS system is made as easy as possible and selects aspects that are used only by the user, which in this case is the teacher and students. Not many LMS developments are aimed at facilitating the work of teachers and students as directed in the laws and regulations, especially the applicable curriculum. This of course has an impact on the difficulties of teachers when they are required to master many supporting systems and applications so that the digitalization of the education system is fulfilled. As a result, teachers tend to feel additional burdens and assignments and prefer to keep using the conventional model.

Based on these problems, in this study, an analysis was carried out on the LMS edulogy related to the suitability of the schematic and hierarchical system in the LMS edulogy with K-13. The results of this study are expected to provide an overview of the suitability and readiness of LMS edulogy in facilitating the education system in Indonesia. Besides, this analysis can also be used as a reference for further development to support the digitization of the education system as a whole.

## LITERATURE REVIEW

### Vice Principal

Vice Principal of the curriculum is a position held by a teacher as an additional task (Menteri Hukum dan Hak Asasi Manusia Republik Indonesia, 2017). Vice principals are seconded to facilitate the principal's performance in managerial terms (Ambarwati, 2018). Furthermore, Paudi dan Suling (2020) explained that the vice principal in the curriculum area is a middle-level leadership hierarchy which has a very important role in maintaining the quality of the learning experience for students.

The additional duties held by the vice principal will greatly reduce the concentration of the vice principal in carrying out their duties. There have been many innovations developed to facilitate the performance of the vice principal of the curriculum, for example, is the application of making lesson schedules (Maarif, 2017).

According to Aufa (2020), the vice-principal of the curriculum has the task of compiling teaching programs, compiling educational calendars, compiling teacher teaching assignments, compiling learning schedules, compiling admissions schedules for educational books and reports, providing the syllabus for all subjects, providing and checking lists attend the teacher, and arrange the completeness of the teacher's facilities. In more detail, the main duties and functions of the vice principal of the school/madrasah can be reviewed from standard school administration documents as shown in table 1 (Mulyana & Faqih, 2012).

**Table 1: Main Duties and Functions of the Vice Principal of Curriculum.**

Duties	
1	Preparing the formulation of curriculum goals
2	Prepare for content determination and curriculum organization
3	Linking the curriculum to available time, physical facilities, and personnel
4	Prepare teaching program materials, resources and equipment.
5	Prepare a teaching supervision program
6	Preparing in-service education programs for teachers
7	Develop programs related to the teaching and learning process
8	Develop a school special education calendar
9	Create KBM formats
10	Arrange the division of teacher teaching duties.
11	Compile a teacher picket list
12	Compile a list of teachers assigned to be homeroom teachers
13	Develop a lesson schedule
	Develop a schedule of evaluation activities that include:
14	- Daily Examination
	- Semester Examination
	- Final Examination
	Collecting teacher work, consisting of:
	- Annual program
15	- Semester program
	- Lesson Plan
	- Learning Media (Module, Worksheet, etc)
	- Report on curriculum targets and absorption
16	Coordinating and submitting the results of the preparation of teacher teaching tools.
17	Prepare reports on teaching and learning activities
18	Fostering and managing MGMP (Subject Teacher Deliberation) activities
19	Prepare reports on MGMP activities.
20	Carry out the best teacher selection
21	Coordinating the implementation of additional lessons or intensive guidance.
22	Create activity reports

Duties	Job Desc
1	Leading the study of continuous teaching
2	Organize an upgrading program for teachers
3	Supervise curriculum development
4	Oversee the supervision and evaluation of teachers by the principal of the field of study
5	Directing the preparation of curriculum guidelines, subjects and other teaching materials; suggest textbooks.
6	Examine learning methods and problems together with teachers and guidance personnel
7	Making suggestions about major changes in the teaching program to school principals
8	Cooperate with officials in charge of students in compiling subjects to be provided and master schedules
9	Describes an educational calendar
10	Develop a teaching structure, division of teaching tasks and schedule lessons
11	Organize and facilitate the implementation of the preparation of teaching administration (annual program, a semester program, syllabus, lesson plans, list of grades, teacher absences, face-to-face absences and class journals)
12	Assisting the principal in the implementation of teaching and learning activities
13	Cooperating with the vice-principal of Student Affairs in the dividing classes of new students
14	Keep documents on assessment tools and submit reports on assessment results.
15	Organizing teacher development activities through MGMP Education and Training, Seminars, Workshops, upgrades and others
16	Organize and create criteria for promotion and graduation
17	Organize improvement efforts and teaching sifting
18	Managing academic competition
19	Coordinating the procurement activities for the required teacher teaching materials
20	Create student progress reports
21	Regulate the learning evaluations and the processing of grades which include assignment scores, daily exam, mid-semester exam, semester exam, tryouts, final exams and others
22	Always coordinate with other parties in program implementation
23	Responsible for his duties to the Principal of the Madrasah

(Source: Adapted from (Mulyana & Faqih, 2012) dan (Sutrisna, 1987))

## Teacher

The teacher has a big role in the continuity of the learning process in the classroom. The teacher serves as a facilitator in learning that helps students achieve predetermined learning goals. In addition to teaching assignments, teachers are also inserted with other administrative tasks that require time to complete.

In many research results, administrative tasks tend to be more burdensome and time-consuming than teaching (teaching) tasks. Referring to standard school administration documents, at least the administrative duties of teachers can be classified into four parts, namely planning, implementing, evaluating, and styling. A more complete description can be found in Table 2.

**Table 2: Main Duties and Functions of Teachers**

Develop Learning Programs	
1	Educational calendar
2	Make the breakdown of time effective
3	Create an annual program
4	Create a semester program
5	Create a syllabus
6	Prepare lesson plan
Implement Learning Programs	
1	List of student attendance
2	Analyze student attendance
3	Fill out the class journal
4	Fill out the learning journal
5	Make special notes in the learning process
Conduct an Evaluation	
1	Develop an evaluation implementation program
2	Develop evaluation tools (grids, question texts, assessment guidelines, other instruments)
3	Carry out evaluations according to the required competencies
4	List each student's grades and competencies
5	Carry out an Analysis of Evaluation Results
Compile and Implement Enrichment	
1	Arrange remedial/enrichment programs
2	Implement improvements which include remedial teaching and/or remedial tests
3	Carry out enrichments for special or highly able students
4	List of the value of the remittances and enrichment results.

(Source: Addapted from (Mulyana & Faqih, 2012) dan (Sutrisna, 1987))

## METHOD

This study uses a qualitative research method, a case study type. The case study used in this research is a single instrumental case study by focusing on a single case aspect (Creswell & Creswell, 2018). The research activity was carried out by analyzing the learning systems and mechanisms available in LMS edulogy. Data about the system is obtained directly, namely by accessing and analyzing the three main edulogy dashboards, namely <https://sekolah>.



[edulogy.id/](https://edulogy.id/), <https://guru.edulogy.id/> and <https://siswa.edulogy.id/>. Besides, interviews with edulogy were also conducted to confirm the intercorrelation scheme that was applied. Besides, data is also obtained from the mobile version of the LMS edulogy through the edulogy application (Edulogy Student 2020).

In this study, an analysis of the user's LMS satisfaction level was also carried out. User selection is done by purposive sampling (random purpose) which involves two main stakeholders, namely the teacher and the vice-principal of the curriculum. This selection is based on research objectives that analyze pedagogic aspects including interaction and learning administration. The number of users who acted as respondents in this study was 152, spread over 144 teachers and 8 from representatives of the curriculum field.

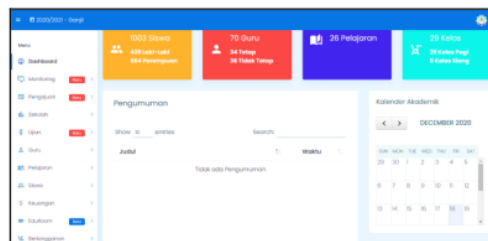
The data analysis was conducted in a descriptive qualitative manner. The results of the analysis of the learning scheme in the LMS edulogy are compared with the K-13 curriculum structure. The aim is to get an overview of how the readiness of LMS edulogy is in facilitating the education system in Indonesia, especially in the K-13 curriculum.

## RESULTS

The research results are described through three subjects. The first topic discusses the overview of the vice principal of the curriculum aspect. The second subject discusses in terms of the teacher as the main facilitator in classroom learning. Finally, on the third subject in terms of user satisfaction aspects.

### Dashboard for Vice Principal of Curriculum

The dashboard available for the vice principal of curriculum refers to the menus in Figure 1.



**Figure 1. Vice-Principal Dashboard**(Source: Author documentation)

The dashboard that is available for the vice principal of curriculum is developed according to the needs of the vice principal of curriculum to carry out assignments. The menus contained in the dashboard of the vice principal of the curriculum area include monitoring, submission, school, examinations, teachers, lessons, students, finance, education, subscription, assistance, arrangements, and exit. Referring to these menus, several menus are considered ineffective and are outside the main duties and functions of the vice principal of curriculum.

The results of the analysis that refer to the main duties and functions of the vice principal of the curriculum field are shown in Table 3. The dashboard of the vice principal of curriculum in LMS edulogy has generally provided facilities for the vice principal of the curriculum in carrying out their duties. Of the 45 assignments and job descriptions for the vice principal of curriculum, there are at least 29 tasks and job descriptions that are already contained in the LMS edulogy or around 64.44%. This percentage shows that the LMS edulogy is good enough to facilitate the vice principal of the curriculum in carrying out his duties.

**Table 3: Pedagogic analysis on the dashboard of the vice principal of the LMS edulogy curriculum**

Table 01 Pedagogic analysis on the dashboard of the vice principal of the LMS edulogy curriculum				
Duties		LMS Edulogy		Keterangan
Tugas Pokok dan Fungsi				
1	Preparing the formulation of curriculum goals	Not yet available	-	
2	Prepare for content determination and curriculum organization	Not yet available	-	
3	Linking the curriculum to available time, physical facilities, and personnel	Available		LMS edulogy provides realtime information about learning time and personnel (teachers) on duty.
4	Prepare teaching program materials, resources and equipment.	Available		LMS edulogy provides Material Bank, Assignments Bank and a Question Bank which allows the vice principal of curriculum to review and prepare all materials
5	Prepare a teaching supervision program	Not yet available	-	

	Duties	LMS Edulogy	Keterangan
6	Preparing in-service education programs for teachers	Not yet available	-
7	Develop programs related to the teaching and learning process	Available	There is a program that is integrated with subject teachers that makes it possible to monitor learning activities on an ongoing basis
8	Develop a school special education calendar	Available	The educational calendar provided is integrated with teachers, students, and parents.
9	Create KBM formats	Not yet available	-
10	Arrange the division of teacher teaching duties.	Available	There are rules for teaching teachers in every subject being taught. However, there is not yet available accumulated lesson hours for general monitoring
11	Compile a teacher picket list	Available	The teacher picket list is integrated with the teacher's account so that the principal, vice-principal, students and parents can find out the attendance of students and picket officers who are responsible for that day.
12	Compile a list of teachers assigned to be homeroom teachers	Available	The homeroom list is effective enough where the rules provided do not allow one class to have two homerooms. Homeroom authority is also integrated with teacher and student accounts. The lesson schedule is integrated with the teacher and student accounts. The arranged lesson schedule allows for monitoring the distribution of lesson hours for teachers. The weakness is that there is no verification between class hours, which means that the vice principal of the curriculum sector or the class teacher must input the lesson schedule manually.
13	Develop a lesson schedule	Available	
14	Develop a schedule of evaluation activities that include: - Daily Examination - Semester Examination - Final Examination Collecting teacher work, consisting of: - Annual program - Semester program	Available	The exam schedule can be inputted in the educational calendar which can be known by students and parents since the beginning of the semester.
15	- Lesson Plan - Learning Media (Module, Worksheet, etc) - Report on curriculum targets and absorption	Available	Teacher work results that can be monitored using LMS edulogy in the form of lesson plans only. The lesson plans format available in the edulogy LMS follows the latest pattern according to the Minister of Education and Culture's circular on simplifying the lesson plans ( <a href="#">Kemendikbud Republik Indonesia, 2019</a> ).
16	Coordinating and submitting the results of the preparation of teacher teaching tools.	Available	Teacher teaching devices that are stored in each teacher's account will be integrated with the dashboard of the vice principal of the curriculum field so that they can immediately check the devices that have been made by the teacher.
17	Prepare reports on teaching and learning activities	Not yet available	-
18	Fostering and managing MGMP (Subject Teacher Deliberation) activities	Not yet available	-
19	Prepare reports on MGMP activities.	Not yet available	-
20	Carry out the best teacher selection	Available	In selecting exemplary teachers, LMS edulogy provides information about teacher activities in real-time, making it easier for the vice principal to carry out this task.
21	Coordinating the implementation of additional lessons or intensive guidance.	Available	Additional lessons and intensive guidance can be accommodated using LMS edulogy. The vice-principal of the curriculum can consider the time and the teacher to carry out additional lessons tailored to other extracurricular activities.
22	Create activity reports	Not yet available	-
<b>Job Desc</b>			
1	Leading the study of continuous teaching	Facilitated	LMS edulogy can provide continuous and realtime communication and supervision channels to support this task.
2	Organize an upgrading program for teachers	Facilitated	Through data and information about teacher performance in LMS edulogy, the vice principal of the curriculum can select and determine teachers to take part in upgrading activities.
3	Supervise curriculum development	Facilitated	Through real-time data, the vice principal of the curriculum can conduct comprehensive supervision related to curriculum

	Duties	LMS Edulogy	Keterangan
4	Oversee the supervision and evaluation of teachers by the principal of the field of study	Facilitated	development programs that are based on teacher activities and student development. Through the data that is generated in real-time, the vice principal of the curriculum can supervise and evaluate teachers on an ongoing basis.
5	Directing the preparation of curriculum guidelines, subjects and other teaching materials; suggest textbooks.	Facilitated	The material bank, assignment bank, and question bank in LMS edulogy facilitate the vice principal of the curriculum to identify the needs and availability of reference materials for each subject.
6	Examine learning methods and problems together with teachers and guidance personnel	Facilitated	The journal and learning notes provided for both individual students and the class as a whole make it easier for the vice principal of the curriculum section to analyze learning problems.
7	Making suggestions about major changes in the teaching program to school principals	Not yet facilitated	Although the vice principal of the curriculum sector can access and monitor every activity of the teacher, the actions that can be taken by the vice principal of curriculum are still limited and cannot provide systematic feedback.
8	Cooperate with officials in charge of students in compiling subjects to be provided and master schedules	Facilitated	The lesson menu allows the vice principal of the curriculum area to determine the subjects to be presented in each academic year. The database provided also allows the vice principal of the curriculum field to select subjects based on the applicable curriculum, and/or can add certain subjects according to the qualifications of the school's human resources.
9	Describes an educational calendar	Not yet facilitated	Educational calendars are still notifications and markers. No reminder activity allows the teacher to regularly prepare everything.
10	Develop a teaching structure, division of teaching tasks and schedule lessons	Facilitated	The learning menu allows the vice principal of the curriculum to compile the teaching structure, division of teaching tasks and lesson schedules that are directly integrated with each teacher's account.
11	Organize and facilitate the implementation of the preparation of teaching administration (annual program, a semester program, syllabus, lesson plans, list of grades, teacher absences, face-to-face absences and class journals)	Facilitated	At this point, LMS edulogy facilitates the preparation of lesson plans only, list of scores, teacher absences, face-to-face absences, and class journals.
12	Assisting the principal in the implementation of teaching and learning activities	Facilitated	Through an integrated system, the principal and vice-principal of the curriculum will get data and information related to teaching and learning activities in real-time.
13	Cooperating with the vice-principal of Student Affairs in the dividing classes of new students	Facilitated	The points for dividing students into classes are found on the two dashboards, namely the vice principal of the curriculum and student fields.
14	Keep documents on assessment tools and submit reports on assessment results.	Facilitated	The available assessment is still limited to the cognitive aspect. Meanwhile, the psychomotor and affective assessment is carried out outside the system, then the results of the assessment can be input into the system
15	Organizing teacher development activities through MGMP Education and Training, Seminars, Workshops, upgrades and others	Not yet facilitated	The new LMS edulogy provides data and information on teacher performance, while the selection and recording of teachers who are given competency development tasks do not yet exist.
16	Organize and create criteria for promotion and graduation	Not yet facilitated	-
17	Organize improvement efforts and teaching sifting	Not yet facilitated	-
18	Monitoring academic competition	Facilitated	Student competency data that can be reviewed in real-time makes it easier for the vice principal of the curriculum to observe students' abilities on an ongoing basis
19	Coordinating the procurement activities for the required teacher teaching materials	Facilitated	Using the material bank database, the vice-principal of the curriculum can review the availability of additional learning materials from teachers in addition to those provided in the library.
20	Create student progress reports	Facilitated	LMS edulogy presents student development charts that can be used as material for the vice principal of the curriculum field to make student progress reports.

	Duties	LMS Edulogy	Keterangan
21	Regulate the learning evaluations and the processing of grades which include assignment scores, daily exam, mid-semester exam, semester exam, tryouts, final exams and others	Facilitated	The integrated educational calendar, question bank, and assignment and exam features provided by LMS edulogy allow vice-principals to be able to carry out the evaluation process in real-time and continuously.
22	Always coordinate with other parties in program implementation	Not yet facilitated	LMS edulogy does have an integrated system down to the supervisory level and the dashboard for the education office level, it's just that the integration system that is provided is only an integrated database so that coordination is still carried out separately.
23	Responsible for his duties to the Principal of the Madrasah	Not yet facilitated	-

In addition to the scope of the task being facilitated quite large, several educational features are still considered ineffective and not yet on target. This will be discussed based on the respective menu available in the dashboard of the vice principal of curriculum.

The first menu is a dashboard that presents data related to the number of students, the number of teachers, the number of subjects, the number of classes, the educational calendar, announcements, and edu info.

Next up is the menu "monitoring". The first feature that is considered inaccurate is the "student participation" feature. This feature provides data related to students who log in to the edulogy application (android) and the relationship between student accounts and parents. This feature is considered ineffective for the vice principal of the curriculum sector and should be presented for the student dashboard because it is outside the academic realm. Meanwhile, the features of "teacher participation", "Teaching and Learning Activities", "Teacher Journal", and "Lessons attendance lists" are good enough to provide comprehensive information.

The third menu is the submission menu. This menu contains RPP features where the vice principal of the curriculum can conduct a review of the lesson plans submitted by each teacher. Every application made by the teacher, the vice principal can give a response in the form of "in-process" which means that it is being reviewed, "accepted", or "rejected". This feature will greatly assist the vice principal of the curriculum field to develop curriculum, improve the quality of learning, and collect learning tools. The drawback of this feature is that the vice principal of the curriculum is not allowed to respond to the teacher's work so that the teacher will experience confusion when the tools that have been made are not accepted. Besides, this feature is still limited to lesson plans only and does not cover other learning tools.

The school menu contains all the information that must be filled in by the vice-principal of the curriculum field. This menu is integrated to all users (school principal, vice-principal of student affairs, teachers, students, and parents). Overall this menu is considered good enough.

The exam menu is a menu that allows the vice principal of the curriculum to make exams, which in this case are school-level exams. Meanwhile, class-level exams such as daily tests and lesson quizzes are handled by each teacher.

The teacher menu makes it easy for the vice principal of the curriculum to carry out personnel duties. In this menu, there is a feature for monitoring teacher attendance at school. Meanwhile, the presence of the teacher in the classroom is presented in the monitoring menu. The weakness in this menu is that it does not provide assignment features in the form of sending teaching assignments to the teacher.

The lesson menu contains a list of lessons that apply to each school. LMS edulogy generally supports learning based on the KTSP and K-13 curricula. Specifically for specific subjects such as vocational high schools and the curriculum in madrasah or pesantren, the subject input mode is provided if it is not yet available in a choice of subjects. The weakness in this menu is related to the available school mode where the option of schools under the Ministry of Religion is not yet available. So that compulsory subjects in the madrasah curriculum are shown as an additional curriculum. Besides, the lesson schedule feature also needs to be further developed to make it easier for the vice principal of the curriculum in compiling a learning schedule. According to research by Herdiyansyah and Cahyana (2015) and also research by Farianto et al (2015) which state that preparing lesson schedules manually (using paper) tends to experience errors and cause teachers to clash with each other during implementation.

Next is the student menu which contains features for adding students, re-registering, and



listing students who leave. The weakness in this menu is the re-register feature where the transfer of students for each academic year is still not efficient. The vice-principal must move students from one class to another class manually. However, as a solution to this problem a menu of adding study groups is provided on the homeroom teacher's account.

Generally, menus and features provided in LMS edulogy may be able to support the vice principal of curriculum solving tasks. These findings were similar to research by Bazeliuk (2019) which state that LMS is not only a supporting tool, more than that it can be a core of digitalization in educational environments. Besides, Farianto et al (2015) state that digital information provides for all stakeholders can reduce the misinformation.

### Teacher Dashboard

The teacher dashboard in LMS edulogy aims to make it easier for teachers to carry out their duties, especially facilitating teachers to document every learning activity in terms of inputs, processes, to outputs and learning outcomes. The display

of the teacher dashboard on the LMS edulogy is shown in Figure 2.



**Gambar 2. Teacher Dashboard** (Source: Author documentation)

LMS edulogy provides several menus and features that aim to make it easier for teachers including the dashboard menu, bank menu, teacher menu, eduroom menu, homeroom menu, school menu, extracurricular menu, set menu and profile menu. The results of the pedagogical analysis of the teacher dashboard on LMS edulogy are presented in table 4.

**Table 4: Pedagogic analysis of teacher dashboard of LMS edulogy**

Duties	LMS edulogy	Keterangan
<b>Develop Learning Programs</b>		
1 Educational calendar	Available	Integrated educational calendar with vice-principal of the curriculum and students
2 Make the breakdown of time effective	Not Yet Available	
3 Create an annual program	Not Yet Available	
4 Create a semester program	Not Yet Available	
5 Create a syllabus	Not Yet Available	
6 Prepare lesson plan	Available	The lesson plan format presented follows the four main points as described in the Mendikbud circular letter (Kemendikbud Republik Indonesia, 2019)
<b>Implement Learning Programs</b>		
1 List of student attendance	Available	The attendance list of students during learning activities is integrated with the deputy head of the curriculum field with information on attendance, illness, permission, neglect, and dispensation.
2 Analyze student attendance	Available	There is a summary report related to student attendance in class
3 Fill out the class journal	Not Yet Available	-
4 Fill out the learning journal	Available	Class journals are available with several points, namely dates, notes, obstacles, preparation, materials and assignments
5 Make special notes in the learning process	Available	Integrated into learning journals
<b>Conduct an Evaluation</b>		
1 Develop an evaluation implementation program	Not Yet Available	-
2 Develop evaluation tools (grids, question texts, assessment guidelines, other instruments)	Available	The new LMS edulogy provides a task bank and a question bank

	Duties	LMS edulogy	Keterangan
3	Carry out evaluations according to the required competencies	Available	The evaluation tools available in LMS edulogy are still limited to the cognitive assessment of the form of PG test, complex PG, true-false, and essays.
4	List each student's grades and competencies	Available	The results of the study are presented for each student and are based on the tests performed
5	Carry out an Analysis of Evaluation Results	Available	Analysis of the evaluation results is contained in the value recap. However, it is still a summary report and descriptive analysis
<b>Compile and Implement Enrichment</b>			
1	Arrange remedial/enrichment programs	Available	Data relating to the test results for each student can be used as material for consideration for carrying out remedial and enrichment
2	Implement improvements which include remedial teaching and/or remedial tests	Not Yet Available	-
3	Carry out enrichments for special or highly able students	Not Yet Available	-
4	List of the value of the remedial and enrichment results.	Available	The LMS edulogy exam system provides an opportunity to make improvements, namely the teacher can carry out repeated exams and the reported scores are also repeated.

In general, the features contained in the LMS edulogy are sufficient to facilitate teachers in carrying out their duties. Based on table 3, 12 of the 20 teacher assignments have been facilitated in the LMS edulogy, which means that 60% of the teacher's assignments can be done digitally.

Next is an analysis of the features contained in the teacher dashboard in LMS edulogy. The first menu is a dashboard that presents data on the number of assignments in the assignment bank and progress, the number of exam packages in the question bank and ongoing exams, summary reports on teacher attendance, academic calendars, announcements, and info. In general, this menu is considered to be quite good at presenting the information.

On the bank menu, there are three features provided, namely RPP, Materials, Tasks, and Questions. The RPP menu is made based on the latest directives from the Ministry of Education and Culture, made with a draft and submission system. At the initial stage, the teacher prepares a draft lesson plan consisting of subjects, levels, subject matter, time allocation, learning objectives, learning activities, and assessment. The completed draft must be submitted for verification by the vice principal of curriculum. The drawback of this feature is the absence of a "sharing" feature for students. According to a study by Nasrullah and Ismail (2018), the students should also know the learning design that is being carried out to make students more focused on carrying out learning activities. The similar finding was also found by Emda (2018) whose state that find the influence of the descrip-

tion of the objectives and benefits of learning to be carried out with the learning motivation of students. Another thing that needs to be improved is the aspect of developing lesson plans considering that the simplification of the lesson plans made to the Education and Culture Ministry still provides opportunities for teachers to explore. (Kemendikbud Republik Indonesia, 2019). On the features of the material bank, task bank and question bank, LMS edulogy is considered to be quite good by integrating between the three. The deficiency in the question bank feature only on the types of assessments available is to remember that assessment in the world of education is not only limited to cognitive aspects. Besides, the flexibility in choosing the form of assessment also needs to be improved so that the assessment is more flexible.

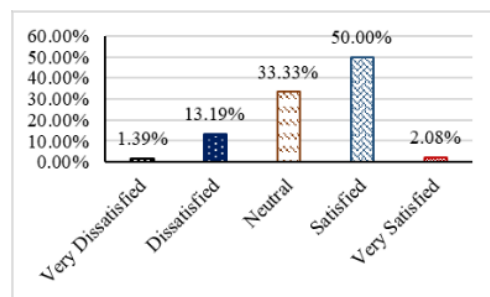
Next is the teaching menu with features including teaching classes, submitting lesson plans, teaching schedules, class absences, lessons, and a recap of grades. The teaching class features, teaching schedules, and class absences are in accordance with the applicable rules where the teacher stays in the classroom, complete the lesson schedule (if it has not been inputted by the vice-principal of the curriculum) and fills in learning attendance. The RPP and value recap features still only contain summary reports with some fixed values that can be input manually as an alternative to the implementation of assessments that are not yet supported by LMS edulogy. In the learning feature, there are four sub-features which contain material, assignments, exams, and journals. These four sub-features indicate ongoing material files, assignments and tests, as well as journals for each meeting.

The EduRoom menu is a container provided by LMS edulogy for virtual face-to-face meetings. It's just that this menu is not openly activated, meaning that re-verification (subscription) is required between the school and Edulogy if you want this feature.

Homeroom and extracurricular menus are also LMS edulogy services to accommodate teachers who are given additional assignments as homeroom teachers or as extracurricular teachers. These two menus are only active for accounts of teachers who are given additional assignments. On the homeroom menu, the teacher in charge has access to add and remove students from the study group, do school absences (student attendance at school), monitor the amount of material, assignments and tests in class, and monitor student attendance in class during learning. . While on the extracurricular menu, teachers are given access to add and remove extracurricular members, add trainers and compile a schedule for implementing activities. All of these features are integrated with the vice-principal of the curriculum, vice-principal of student affairs, principal, students and parents.

### User Satisfaction

The satisfaction of LMS edulogy users was collected through the distribution of online questionnaires. As many as 75% of the vice principal of the curriculum sector gave a "satisfied" response to LMS edulogy in facilitating their performance while the other 25% gave a neutral attitude towards the use of LMS edulogy. The results of the responses given by the teacher tend to be more diverse, as shown in Figure 3.



**Figure 3. Teacher level of satisfaction** (Sources: Results of Data Processing)

Figure 3 illustrates that the majority of teachers are quite satisfied with the features contained in the LMS edulogy. This indicates that

the edulogy LMS is quite compatible with the applied learning scheme which refers to the K-13 curriculum. This result tends to be smaller than the level of satisfaction in using google classroom (Fahirah et al., 2020) and e moodle (Tiawan et al., 2020). Based on the feedback given by the respondents, the low level of satisfaction was allegedly due to technical problems. Besides, the frequency of use is also one of the factors that determine the level of user satisfaction (Larasati & Andayani, 2019).

This study has limitations in terms of data sources. This refers to the dashboards on many edulogy LMS such as school principals, vice-principals of student affairs, finance, administration, agencies (institutions), and supervisors. Further research is needed to analyze other dashboards to get a comprehensive picture of the readiness of LMS edulogy in supporting the education system in Indonesia

### CONCLUSION

LMS edulogy has many features to support the performance of the vice principal of curriculum and teachers. Analysis of LMS readiness on the pedagogic aspect shows that as many as 64.44% of the duties and job descriptions of the vice principal of the curriculum area have been facilitated in the edulogy LMS and as many as 60% of the teacher's assignments and job descriptions have also been facilitated. The hierarchical system that has been built has also led to the direction of the K-13 curriculum with an integrated system scheme that allows each stakeholder to perform their tasks in real-time. Based on the questionnaire distributed, 75% of the vice principal of the curriculum field expressed satisfaction with LMS edulogy and 67.64% of teachers also expressed satisfaction with LMS edulogy.

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