

## Utilization of Moodle-Based Learning Management System in Pancasila and Citizenship Education Subjects at SMK Nusantara 1 Tangerang City

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**Abstract.** The rapid advancement of information and communication technology has caused various educational institutions to use e-learning systems to increase the flexibility and effectiveness of learning. One of them is utilizing the Learning Management System in learning. This study aims to find out the use of the Moodle-based Learning Management System in Pancasila and Citizenship Education (PPKn) subjects at SMK Nusantara 1 Tangerang City starting from planning, implementation and evaluation, along with obstacles and solutions. This research applies a qualitative approach with a descriptive method. Data collection was carried out using observation, interviews and documentation. The results of the study found that the moodle-based Learning Management System had been put to good use in Civics subjects as a learning support medium. PPKn subject teachers have been provided with training on the use of the Learning Management System and are accustomed to using the Learning Management System in learning so that students are given convenience in the learning process because the material can be accessed easily. Obstacles faced in the use of the Learning Management System, namely the internet network, problematic systems, besides that some students are not too focused on learning. The solutions for overcoming obstacles in the use of the Learning Management system in PPKn subjects are: taking into account 1) Planning and Policy; 2) leadership; 3) infrastructure and resources; 4) Management; 5) teaching abilities and competencies of teachers; and 6) level of technical support.

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**Keywords:** Learning Management System; Moodles; Pancasila and civic education.

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### INTRODUCTION

The importance of education in life can provide knowledge and skills acquired in it, education is an effort made to create a learning atmosphere and learning activities for students to actively develop their potential. Education is currently influenced by advances in digital technology. Where the advancement of digital technology today has a very influential effect on various fields of life including in the field of education. This is as stated by (Uno, 2011) Technology can improve quality and reach if used wisely in education and in other fields. in this case, efforts to improve the quality of

education can be done through utilizing technology as a means to support learning activities, because by utilizing teaching technology and students can carry out learning activities anytime and anywhere. Thus all educators and students are required to be able to utilize information and communication technology in learning activities as a medium to facilitate learning activities. The current learning is also influenced by the phenomenon of the spread of the Covid-19 virus, which is based on data from the Covid-19 Handling Task Force from its official website, namely <http://covid-19.go.id/p/konten/bersatu->

[lawan-covid-19](#) accessed on January 8, 2021 at 20:47, noted that the Distribution Data in Indonesia positively affected by the spread of Covid-19 totaled 797,723 people, who recovered amounted to 659,437 and who died amounted to 23,520 people (Last Update 7-01-2021).

Currently distance learning is an option in learning. In order for these learning activities to run optimally and well, it is necessary to have media that can support or assist the course of the activity process learning including the Learning Management System. According to (Lestari, 2014) Learning Management System is a software application that can be used to document, manage, track, report, and deliver e-Learning based educational programs. Thus the Learning Management System is a system that can be used to manage the process of learning activities with the facilities provided by the system, through the Learning Management System educators can manage classes and access learning materials with students. In this case, the process of learning activities can be done anytime and anywhere without being limited by space and time.

The subject of Pancasila and Citizenship Education (PPKn) is one of the subjects in the school. PPKn lessons as a forum for developing or forming good morals and character of students in accordance with the values of Pancasila and the 1945 Constitution, which are expected to be applied in the

behavior of daily life in both society, nation and state. This is in accordance with (Kemendikbud, 2014) PPKn lessons function as subjects that have the mission of driving character education and strengthening nationality. The importance of Pancasila and Citizenship Education, it is necessary to improve the process of Civics learning activities in schools so that they are improved.

SMK Nusantara 1 Tangerang City is one of the private schools that has used or implemented a Learning Management System in all subjects, including Civics subjects. In accordance with the results of the preliminary interview study conducted on January 6, 2021. According to Mr. Andy Erwin Rismanto as the teacher of Information Technology and Management Coordinator SMK Nusantara 1 Tangerang City, the Learning Management System has been implemented in recent years, in tandem with face-to-face classes. Students only need to open the [lmsmk.nusantara1.sch.id](http://lmsmk.nusantara1.sch.id) page so they can do it directly in online learning. Learning Management System (LMS) SMK Nusantara 1 is a device (software) to plan, manage, implement a learning process that contains material packaged in multimedia form.

In 2020, during the Covid-19 pandemic, learning at SMK Nusantara 1 Tangerang City, all learning activities were carried out online with distance learning. The learning process is the same as usual online learning. Starting with a digital pre-test, self-study through digital

modules, videos, articles, and data that are already available in the school's Learning Management System. In the implementation process itself, there are several problems when carrying out learning using the Learning Management System, namely students are constrained by expensive quota internet signals, there are still teachers who are not familiar with technology, where the Learning Management System requires a lot of knowledge in technology, Learning Management System. has many advantages but there are also obstacles in its utilization. As for the initial goal of making a Learning Management System in schools, namely to make it easier for teachers to carry out the process of learning activities, in providing subject matter to be studied and keeping abreast of advances in the world of technology. The Learning Management System for SMK Nusantara 1 Tangerang City uses a Moodle-based platform.

The aim of this study is to describe the use of the Moodle-based Learning Management System in Civics lessons at SMK Nusantara 1 Tangerang City, along with the constraints and solutions.

The novelty of this research is with previous research, where there have been many studies that examine Learning Management Systems, but each research has its own discussion and different problems related to this theme. In addition,

the focus of the research studied by researchers is to focus more on how to use, constraints and solutions in using the Learning Management System in Pancasila and Citizenship Education subjects. From several previous studies that there was nothing specifically to discuss about the use of the Moodle-based Learning Management System in Pancasila and Citizenship Education subjects, it can be concluded that not much research has been carried out by previous researchers.

## RESEARCH METHODS

The research was conducted at SMK Nusantara 1 Tangerang City by applying a qualitative approach with descriptive methods, because this research required in-depth information from informants by carrying out data collection techniques through documentation, observation and in-depth interviews with informants, namely PPKn Teachers, Learning Management System Management Teachers, and Students of SMK Nusantara 1 Tangerang City, in order to obtain valid and natural data as possible in explaining the use of the Moodle-based Learning Management System in Civics subjects at SMK Nusantara 1 Tangerang City. The activities in data analysis were applying data reduction, data presentation, conclusion/data

verification. In Checking the Validity of the data using Triangulation.

## DISCUSSION

### **Utilization of the Moodle-based Learning Management System in the subject of Pancasila Education and citizenship at SMK Nusantara 1 Tangerang city**

In the first focus, regarding the use of a Moodle-based Learning Management System in the subject of Pancasila and Citizenship Education at SMK Nusantara 1 Tangerang City. Pancasila and Citizenship Education is a subject that is expected to shape the morals and character of students as good citizens in accordance with the values of Pancasila and the 1945 Constitution. This is as stated by (Daryono 2011) Pancasila and Citizenship Education is one of the subjects the lessons contained in the school curriculum and trying to foster the moral development of students based on Pancasila values, so that they can achieve optimal development and can realize it in their daily lives, and this is also in accordance with the Ministry of Education and Culture (2014) PPKn subjects function as subjects that have the mission of strengthening nationality and driving character education. In this case, the importance of Pancasila and Citizenship Education requires efforts to

improve the learning process of Pancasila and Citizenship Education in schools, one of which is by utilizing technology, namely by using a Learning Management System in learning. Whereas the Learning Management System is software to facilitate online learning activities. This is as stated by (Herbimo, 2020) The Learning Management System is software for administrative purposes, reports on activities, documentation, teaching and learning activities, and activities carried out online, namely connected to the internet.

Based on the results of the research, it can be explained that the use of the Learning Management System at SMK Nusantara 1 Tangerang City is motivated by following the progress of digital technology which is increasing rapidly and to facilitate the learning process, on that basis schools assume that educators and students are required to be able to utilize technology in learning, as an effort schools in order to improve the quality of education, in this case it is necessary to have a system for learning activity facilities, so that finally schools create an online-based Learning Management System to support the learning process that can be used by teachers and students both at school and at home.

Learning Management System used by SMK Nusantara 1 Tangerang City, which is based on Moodle. According to (Rizal, et al:

2019) Moodle is a free LMS application that can be downloaded, used or modified by anyone with a GNU (General Public License) license. According to (Purnajaya 2021) Moodle stands for Modular Object-Oriented Dynamic Learning Environment, which means a dynamic learning place using a Web-based object-oriented model. In line with the opinion (Prata, 2018) that Moodle as a Learning Management System is an application that can convert learning media into the web. Thus learning activities are carried out by accessing the website. Moodle-based Learning Management System seeks to provide convenience for students and educators in learning, by providing a Moodle-based Learning Management System in the form of a website as well as an application. So that educators and students can easily do learning. To access the Moodle-based Learning Management System in the website version, users need to access it first via Google Chrome which is generally used by educators and students, then the user enters the website address [lmsmk.nusantara1.sch.id](http://lmsmk.nusantara1.sch.id). then the version of the Learning Management System application can be downloaded via Google Playstore with the keyword moodle. To access the Moodle-based Learning Management System in the website version, users need to access it first via Google Chrome which is generally used by educators and students, then the user enters the website address [lmsmk.nusantara1.sch.id](http://lmsmk.nusantara1.sch.id). then the version of

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Learning Management System moodle-based SMK Nusantara 1 Tangerang City has simple and easy-to-use features and appearance for planning, managing, implementing a learning process that contains material and is packaged in multimedia form.

As according to Leastari in (Simanihuruk, 2019) the main features in the Learning Management System include: 1) Administrative Features; 2) Features of delivery of teaching materials; 3) Testing Features 4) Assessment Features; 5) Communication features.

First, the administration feature is the part that provides administration such as student registration, information on learning activities, student attendance lists and so on. Based on the results of research on administrative features regarding student registration in the Learning Management System, which is carried out by teachers managing the school's Learning Management System, managers of the Learning

Management System register user identities, namely educators and students who are linked in the school's academic Learning Management System, then managers group users based on classes, majors, and subjects, after which the Learning Management System users are given a password and username by the manager so they can access the Learning Management System.

Second, the feature of delivering teaching materials is a very important component in learning, the delivery of teaching materials includes uploading learning content and distributing learning content. Based on the results of research by making direct observations in the learning process using the Learning Management System in PPKn lessons that the teacher conveys teaching materials in various ways, namely besides the teacher being able to upload or provide learning material in the form of files or documents in the Moodle-based Learning Management System, the teacher can also convey material directly to students via zoom by attaching the zoom link in the Learning management System. then the teacher can also convey material through learning videos, In order to save space on the server, the video is usually saved to a video storage service provider, including YouTube, the learning video link uploaded on YouTube is attached to the Learning Management System. thus learning activities carried out in the Learning Management System. In addition, the

Learning Management System can be accessed anytime and anywhere and provides convenience in learning activities. This is in line with the opinion of (Indarti, et al, 2015) that the Learning Management System used in online learning must facilitate users to be able to upload or publish teaching material files into the system and then access these material files together with other users.

Third, the testing/assignment feature is a component for measuring students' competence in the material received. This is in line with according to (Indarti, et al, 2015) that assignments in online learning assignments are one of the components to measure a person's competence in the material received, so that the Learning Management System used for online learning must be able to support the delivery and collection of Duty. As for the existence of this testing or assignment feature, it will make it easier for educators to evaluate students' learning progress and for students to easily collect the results of completing assignments given by educators. Based on the results of testing research conducted by Civics teachers. Moodle-based learning management system at SMK Nusantara 1 Tangerang City can facilitate the assignment and collection of assignments and provide convenience for students and educators, testing or assignments are carried out through assignments, PTS (Middle Semester Assessment), and PAS (Final Semester Assessment) with various various forms, including Multiple Choice

(PG), quizzes, essays and so on tailored to the needs. As for the existence of this testing or assignment feature, it will make it easier for educators to evaluate students' learning development, and for students to easily access assignments and collect the results of completing assignments given by educators. testing or assignments are carried out through assignments, PTS (Mid Semester Assessment), and PAS (Final Semester Assessment) in various forms including Multiple Choice (PG), quizzes, essays and so on according to needs. As for the existence of this testing or assignment feature, it will make it easier for educators to evaluate students' learning development, and for students to easily access assignments and collect the results of completing assignments given by educators. testing or assignments are carried out through assignments, PTS (Mid Semester Assessment), and PAS (Final Semester Assessment) in various forms including Multiple Choice (PG), quizzes, essays and so on according to needs. As for the existence of this testing or assignment feature, it will make it easier for educators to evaluate students' learning development, and for students to easily access assignments and collect the results of completing assignments given by educators.

Fourth, the assessment feature is a process carried out in the Learning Management System which aims to determine the achievement of student learning

competencies, based on the results of the study that the assessment carried out by the teacher (PPKn) SMK Nusantara 1 Tangerang City is carried out automatically in the Learning Management System and depends on the type of question given. In the Learning Management system there is an assessment forum so that students can see and know the value in the Learning Management System.

Fifth, the communication feature is a process of sending information from educators to students in the Learning Management System to achieve learning objectives. Based on the results of the study, communication carried out by Civics teachers and students in learning using the Learning Management System can be done via zoom by attaching the zoom link in the Learning Management System, besides that communication can be done through discussion forums and chat forums available in the Learning Management System. moodle based.

### **Obstacles encountered in the use of a Moodle-based Learning Management System in Pancasila and Citizenship Education lessons**

In the second research focus, regarding the obstacles encountered in the use of the Moodle-based Learning Management System at SMK Nusantara 1 Tangerang City based on the results of observations, documentation and accompanied by the results of interviews in the field that in the use of the Learning

Management System in learning there are still some obstacles encountered including namely quotas, internet networks, and systems that have problems in learning. Besides that, the lack of focus on students in learning to use the Learning Management System causes some students to tend to be passive.

as stated by Aries C, in (Fadriati, 2020) that the obstacles faced by students in using online learning, learning becomes challenging. In this case, it results in the low ability of students to master teaching materials. This is in line with the results of research (Marwah, 2021) suggesting that online learning activities certainly have obstacles that affect learning, including; constrained by a weak network due to quotas, there are still students and teachers who do not understand technology, and there is no signal or internet network because if implementing online learning does not have a signal network then you will not be able to access the online learning system.

**The solution that will be carried out to overcome obstacles in the use of the Moodle-based Learning Management System in Pancasila and Citizenship Education subjects**

Based on the results of research in the field, there are still obstacles to be faced in using the Learning Management System in

Civics learning, which can hinder the learning process. So in this case it is necessary to have a solution to overcome obstacles in the use of the Learning Management System so that learning can be carried out properly, efficiently and effectively to achieve learning goals. solutions that will be carried out to overcome obstacles in the use of the Moodle-based Learning Management System in PPKn courses, namely schools must provide infrastructure, improve the learning system, namely improve the Learning Management System device to make learning easier, and the next solution is to conduct training for educators so that they can increase the use of technology in learning.

Based on this, it is necessary to pay attention to the success factors for developing a Learning Management System according to (Munir, 2009) and can be used as a solution to face obstacles in the use of a Learning Management System in learning, including:

First, policy and planning, namely identifying the objectives of using the Learning Management System in learning and determining priorities, namely according to the needs of educators and students. further resources, namely among others educators and students in utilizing the Learning Management System in learning. and plans depend on leadership roles and responsibilities.

Third, infrastructure and resources, infrastructure in the Learning management System, namely the structure of facilities that



support the interests of the Learning Management System, Learning Management System infrastructure in the form of internet networks, servers, and other equipment to support the learning process in the Learning Management System. then the resources in the Learning Management System, namely the potential possessed in managing the Learning Management System, which consists of educators and students.

Fourth, Management, management in the use of the Learning Management System, namely as a field tasked with regulating and directing the management of the system, namely the manager of the Learning Management System who has authority in the system to improve the development of the Learning Management System in schools.

Fifth, the teaching abilities and competencies of teachers, which can be done by holding training for educators so they can increase the use of technology in learning. Improving the competence of educators in utilizing the Learning Management System so that learning goes well and becomes more effective,

Sixth, the level of technical support, to overcome obstacles in the use of the Learning Management System requires a level of technical support, namely the Learning Management System must increase the ability to access reliable and in the ability to access equipment and software in increasing the ability to use the Learning Management

System in schools so that it can facilitate and assist teachers and students in learning using the Learning Management System.

Based on the explanation above and the results of research conducted by researchers, that in the use of the Learning Management System it is necessary to pay attention to the success factors for the development of the Learning Management System and can be used as a solution to deal with obstacles in the use of the Learning Management System in learning activities.

## CONCLUSION

Based on the results of the research and discussion that has been presented, it can be concluded that the use of the Moodle-based Learning Management System in Civics lessons is put to good use as a learning support medium, namely to plan, manage, implement a learning process that contains material and is packaged in multimedia form, and Learning Management. This Moodle-based system has features that support the delivery of teaching materials, student attendance lists, testing or giving assignments, assessment, communication, learning can be carried out anytime and anywhere, in this case the Moodle-based Learning Management System can facilitating online learning activities and being able to learn outside of class hours. As for the constraints faced in the use of the Moodle-based Learning Management System in PPKn lessons, there are still several

obstacles faced by students and educators in the implementation of learning, including quotas, internet networks, and systems that have problems in learning. In addition, there are still some students who are not too focused on learning to use the Learning Management System which results in some students being passive. The solution that will be carried out to overcome obstacles in the use of the Learning Management System in Civics lessons is that the use of the Moodle-based Learning Management System in learning still has obstacles faced by students and educators so that it can hinder learning activities. So in this case a solution is needed to overcome obstacles in the use of the Learning Management System so that learning can be carried out properly, efficiently and effectively in order to achieve learning objectives. Based on the results of research in the field, the solutions that will be carried out to overcome obstacles in the use of the Learning Management System in Civics lessons are by taking into account the following matters: 1) policy and planning; 2) leadership; 3) infrastructure and resources; 4) Management; 5) teaching abilities and competencies of teachers; and 6) level of technical support.

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