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**THE EFFECTIVENESS OF IT-BASED CLASS MANAGEMENT
IN IMPROVING STUDENTS' DISCIPLINE**

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1 **ABSTRACT**

The issue of this research is related to the ways on how to improve the effectiveness of the class management through the use of IT-based application in improving the students' discipline. The objective of this research is to improve the students' discipline especially in attending the courses in university through the use of an application in a portable and flexible finger print tool. This qualitative descriptive research is expected to be able to explain the phenomenon of the importance of students' discipline in improving class management effectiveness. The data used are primary data, gathered by using questionnaires, observation, and CBIS. The analysis technique employs the application, the database, detector tool, and the setting of the application. The research result shows that there is an improvement on students' discipline through the use of discipline application using finger print tool that is portable and flexible. The implementation of this research result is the improvement of the discipline using the application is necessary to be conducted for the effectiveness of class management. It is expected that from this research result, the dean of the faculty and the rector of the university can support the use of the discipline application using the portable finger print tool, so that it can improve students' discipline and eventually can improve the quality of education and teaching process.

KEY WORDS

Class, management, discipline, application.

The goal of University of National Development "Veteran" Yogyakarta as well as Economics and Business Faculty is to support the national development in higher education field to create qualified human resources by improving the quality of the graduates that are able to compete in worldwide and have the passion to defend the country by providing qualified learning processes. Discipline is one of the implementation of State Defense in which by being disciplined, the human resources will become responsible and are able to keep the integrity and the identity of the university. This is one of the excellences in University of National Development "Veteran" Yogyakarta. Improving the students' discipline can be reached by conducting good class management and having the supporting facilities for the students with the aim at improving the quality of education and learning process. The purpose of class management process is to arrange, organize, and optimize the ways of the lecturers in conducting their learning process.

The interest of this research is the importance of class management in improving students' discipline, in which it is one of the ways to improve students' performance in learning process, which is expected to be able to improve the quality of education itself.

However, the current existing problem is that the students are still lack of discipline, in which many of them conduct the practice of making fake signature in attendance list for their friends' absence. Another problem is from the facilities themselves, in which the documents issued by CBIS do not have students' retina or finger prints. The documents only provide students' pictures. Also, there is no CBIS network for clients in teaching section and the teaching manual system in EBF are not really supportive, for example no server problem and sometimes the rooms for the classes are changed.

Based **1** on those problems, there is a need to improve students' discipline by supporting the facilities through the use of an application on finger print tool that is portable and flexible.

METHODS OF RESEARCH

The goal of class management is to provide, create, and keep optimum condition in the class so that the students can learn and work well. Besides, class management also can create and keep the class condition so that the learning process can run well according to its objectives (Rofiq, 2009).

Class management processes according to George Robert Terry are as follows.

- Planning. It is the function of the management to design the strategies needed to reach the determined goals and develop the plans in conducting the coordination of the activities needed to do the strategies;
- Organizing. It is the function of the management when the managers arrange the job description of each person, such as determining the duties and process, and deciding who will do the duties;
- Actuating. It is the function of the management in the form of an action so that the plans that have been made can be realized according to the expected goals;
- Controlling. It is the function of the management in doing observation, assessing the performance in the implementation, and doing corrective actions needed to improve the performance of the organization to reach the goals.

Discipline is the basic attitude of a person that has high influence on many things, both personal matters and group matters. To reach high discipline level, there is a need to have self-awareness from oneself to practice the discipline in daily life so that the person will be disciplined too on working life as well as in daily life. (Susanto, 2017)

The Constitution of National Education System number 20 year 2003 states that national education has functions to develop the ability and to shape the people's attitude and civilization with their dignity in terms of educating the life of the nation, and aiming at developing the people's potential to be healthy, responsive, creative, independent, and knowledgeable with their strong faith to God, great dignity to become the democratic and responsible citizen. This is followed by the Presidential Regulation of Republic of Indonesia number 121 year 2014 about the Establishment of University of National Development "Veteran" Yogyakarta in chapter 2 stating that University of National Development "Veteran" Yogyakarta has the identity to defend the country so there is a need to manage the class with the objective to build the students' discipline in order to develop the quality of the education and the learning process and eventually create the superior generations that are internationally competitive over the world. (Perpres, 2014).

The research problem is related to the existence of the poor discipline level of the students supported by the insufficient service of the educational employee in EBF.

This qualitative descriptive research design is expected to be able to give explanation about the phenomenon about the importance of students' discipline in improving the effectiveness of class management. The data used are primary data gathered by using questioners, observations, and CBIS. The analysis technique employs applications, database, and detector tool and the setting of the application about students' discipline. The users of this application are the students of Economics and Business Faculty majoring Management, Accounting, and Development Economics in University of National Development "Veteran" Yogyakarta.

RESULTS AND DISCUSSION

The research result shows the description about the application, the database, the detector tool, and the setting, as follows: installing the IT-based discipline application in lecturers' laptops; running the IT-based students' discipline application.

First Attendance Method via Finger Spot Scan. Select finger spot scan that is compatible with this IT-based discipline application. This first method of finger spot scan is divided into three parts. At first, use the following steps: input manually the data of each student's finger print in every course/class/lecturer and it directly serves as the first

attendance in first meeting. The next step in the first meeting, the database of the students' finger prints will become the signs of their attendance for the first time.

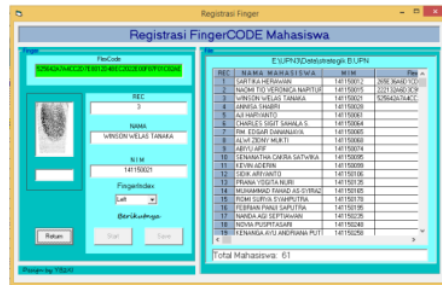


Figure 1 – The display of the registration menu of new students in one class from CBIS in EFB

Second meeting until seventh meeting and ninth meeting until fifteenth meeting. ¹ The use of the IT-based discipline application attendance for these meetings is the same as in the first meeting. The students sign their presence for one time using their left finger in the finger spot scan. Then, each student who has done it will be seen in the worksheet of the second meeting column. The display of the finger spot can is as follows:



Figure 2 – The display of the attendance result in one class

¹ The use of the IT-based discipline application for students' attendance for meeting 8 and meeting 16 is the same as in first meeting and the following meetings.

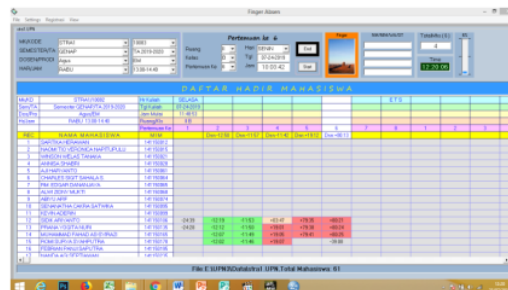


Figure 3 – The display of the attendance result in one class

Second Attendance Method without Finger Spot Scan. By using this method, after opening the database of the attendance file of the course in certain session, make sure to set the meeting, day and date, and course schedule/time.

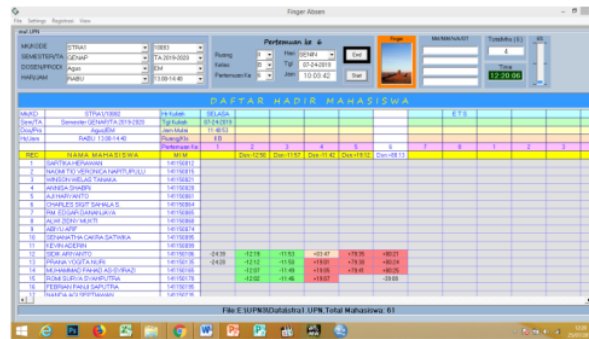


Figure 4 – The display of the attendance result in one class

The students come in front of the class, click on the current meeting on the row of the student's name. The weakness of this method is that if the students are dishonest, they can also click on their friends' names, intentionally or not.

OUTCOME of the IT-based application is the form of documents of discipline level based on the students' attendance in courses. Discipline level starts from <15 minutes to >15 minutes. Six inferences of Discipline Levels based on students' attendance in the courses in IT-based application are as follows:

- Level 1- Discipline. Very Disciplined (SDS) these students always come before the courses start (< 0'), the rank of SDS discipline level inference if: 10 SDS. + 4 D, it means the students are really ready to obtain the knowledge, the score of attitude instrument in INQF =7 points;
- Level 2-Discipline. Disciplined (D) these students always come on time when the courses start (0'), the rank of D discipline level inference if: 10 D+4 KD, it means the students are really ready to obtain the knowledge, the score of attitude instrument in INFQ=7 point;
- Level 3-Discipline. Less Disciplined (KD) (+ 5'), the rank of KD discipline level inference if: 10 KD + 2 D or 2 SDS, it means the students lost the introduction part of the chapter that will be discussed by the lecturer, the score of the attitude instrument in INFQ=5 point;
- Level 4-Discipline. Not Disciplined (TD) (+ 10'), the rank of TD discipline level inference if: 7 TD + 7 KD or there is 1-2 SDS or there is 1-2 D, it means the students lost the introduction part, the benefit, and the goal of the chapter that will be given by the lecturer or presenter, so the students cannot relate to the lessons being taught. The score of the attitude instrument in INQF= 3 point;
- Level 5-Discipline. Very Undisciplined Discipline (STD) (+ 15'), the rank of STD discipline level inference is if: 7 STD + 7 TD or there is 1-2 SDS or there is 1-2 D, it means the students lost the introduction part, the objective, the benefit, and the method of the chapter that will be given by the lecturer or presenter, in this condition the students really cannot relate to the chapter being taught. The score of attitude instrument in INQF=1 point;
- Level 6-Discipline. Extremely Undisciplined. (STDS) (> 15'), the rank of STDS discipline level inference if: 1 KD + 4 TD + 4 STD + 6 STDS or there is 1-2 SDS or there is 1-2 D, it means the students lost the introduction part, the objective, the benefit, the method and even part of the chapter that will be given by the lecturer or presenter, in this condition, the students extremely cannot relate to the chapter being taught. The score of attitude instrument in INQF =0 point.

The results showed from 110 students used as a sample in this study: 57 students ever did absent and 53 students have never been absent. From 57 students have ever been making timesheet: 11 students had been absent 3 times 9 students have been absent twice, and the rest ever left absent 1 time.

The reason for 57 students making a timesheet: reason 39 students because of opportunities lecturers never or only sometimes one time three times checking attendance during lectures take place, because too much material time is up, when the lecturer does checking the presence of brave students pointing the finger twice is not found, reason 11 students were forced to be absent because there are other events that are timed coincides with the class schedule, 7 students haven't done the assignment lecturer/student is not active in group presentation, reason 10 students are absent because sick/not feeling well when you want left for college but didn't have hospital hospitalization due to illness light. From 110 respondents in this research is never too late entered college as many as 73 students and who always come before college starting 37 students. Of 73 late students: 17 students are late>20 minutes, which is > 10 minutes late 39 students, which is late>0-10 minutes 17 students. So, by using that application the students who are absent are 0.

It can be stated that by using discipline application with the portable finger print tool, it is expected that it can improve the students' discipline.

CONCLUSION

Improving students' discipline can be conducted by using effective class management supported by the process of using discipline application with the portable and flexible finger print tool. It is expected that with this research result, the faculty dean and the rector of the university can support the use of this application using the portable finger print, so that eventually it can improve the students' discipline and can improve the quality of education and the learning process in order to create superior and globally competitive students.

ACKNOWLEDGEMENTS

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