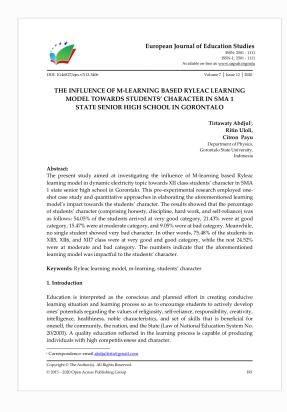
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THE INFLUENCE OF M-LEARNING BASED RYLEAC LEARNING MODEL TOWARDS STUDENTS' CHARACTER IN SMA 1 STATE SENIOR HIGH SCHOOL IN GORONTALO

by Tirtawaty Abdjul, Ritin Uloli, Citron Payu

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THE INFLUENCE OF M-LEARNING BASED RYLEAC LEARNING MODEL TOWARDS STUDENTS' CHARACTER IN SMA 1 STATE SENIOR HIGH SCHOOL IN GORONTALO

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Abstract:

The present study aimed at investigating the influence of M-learning based Ryleac learning model in dynamic electricity topic towards XII class students' character in SMA 1 state senior high school in Gorontalo. This pre-experimental research employed one-shot case study and quantitative approaches in elaborating the aforementioned learning model's impact towards the students' character. The results showed that the percentage of students' character (comprising honesty, discipline, hard work, and self-reliance) was as follows: 54.05% of the students arrived at very good category, 21.43% were at good category, 15.47% were at moderate category, and 9.05% were at bad category. Meanwhile, no single student showed very bad character. In other words, 75.48% of the students in XII5, XII6, and XII7 class were at very good and good category, while the rest 24.52% were at moderate and bad category. The numbers indicate that the aforementioned learning model was impactful to the students' character.

Keywords: Ryleac learning model, m-learning, students' character

1. Introduction

Education is interpreted as the conscious and planned effort in creating conducive learning situation and learning process so as to encourage students to actively develop ones' potentials regarding the values of religiosity, self-reliance, responsibility, creativity, intelligence, healthiness, noble characteristics, and set of skills that is beneficial for oneself, the community, the nation, and the State (Law of National Education System No. 20/2003). A quality education reflected in the learning process is capable of producing individuals with high competitiveness and character.

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Central to the notion of implementation of physics learning is the character development. It aims to nurture a students' physical and mental development to achieve the ideal civil values within a community and the nation (Damayanti, 2014: 10). The ideal character values are instilled through the stage of learning; the knowledge learned then transforms into set of actions and becomes an individual's habit. Such conduct falls under the responsibility of a teacher, who, aside from transferring knowledge, is obliged to nurture one's students to progress into better human beings.

The actual condition is, however, far from ideal; in most learning activities in schools, the integration of character instilment in education is neglected. Such a problem blames several factors, among others, the teachers' lack of understanding and attitude towards the integration of character education; the teacher's lack of positive outlook towards the students also contributes to the problem. Teachers tend to state the character values in written form.

As the coping strategy of the problem, the teachers are suggested to embed character values in every learning activity; such a conduct is optimized by implementing a learning model that is able to arouse the students' learning motivation. One of the learning models that is able to achieve the aforementioned goal is the M-learning based Ryleac learning model.

Ryleac learning model applies a constructivist approach and involves set of activities that are planned and executed optimally. The model prepares the students to conduct flexible self-experiments to discover the answers or solutions to a problem by themselves. By this model, students will be able to formulate a connecting notion between one discovery to another and compares the acquired concept with that of other students. Such a mechanism encourages the students' active involvement in learning activities such as science experiment (Abdjul, 2019: 42). Ryleac model views the students as the active participants of an intellectual exploration to formulate a synthesis based on one's result of observation.

The involvement of learning media is essential in the delivery process of a learning material. Learning media facilitates the teacher to actualize a meaningful and quality learning activity (Walat, 2010). As a part of electronic learning (E-learning) concept, M-learning allows the teacher to utilize a phone-based media to deliver the learning material as well as to provide the instruction and learning information anywhere and anytime. M-learning is one of the alternatives of learning process that offers the flexibility of time and place (Darmawan, 2012: 15). In line with that, Ally (2009: 1) states that M-learning is the learning process that involves mobile wireless technology that allows everyone to access the alternative to limited time allocation of particular sets of learning material; it also encourages the students to learn by themselves from the provided resources (Yuniati, 2011). M-learning model supports the approach of student-centered learning, in which the teacher is positioned as the facilitator that provides learning media to deliver the learning contents in the form of textual, audiovisual, and multimedia platforms (Wibawanto, 2017: 30). Based on the previous notions, the present study aims to

investigate the extent of influence of M-learning based Ryleac learning model towards the character of 12th grade students in SMA 1 state senior high school in Gorontalo.

2. Material and Methods

Conducted in SMA 1 state senior high school in Gorontalo, the present study involved the students in XII5 class, XII6 class, and XII7 class of 2020-2021 academic year as the research subjects. The experimental research employed quantitative approach in elaborating the Ryleac learning model's impact on the students' character. In particular, it applied one-shot case study pre-experimental method. The method refers to a preexperimental design with simple experimental approach; it involves one experiment class and two replication classes. The involvement of replication class is aimed to validate the consistency of students' learning outcomes. The notion is presented in the following table.

Table 1: Research Design				
Class	Treatment	Observation result		
Experiment	X1	O2		
Replication 1	X1	O2		
Replication 2	X1	O2		

(Arikunto, 2013: 210)

X₁ was the experiment group, while O₂ was the result of observation of learning process. This study relied on a questionnaire technique to acquire the data. The students' characters that were measured involved honesty, discipline, hard work, and self-reliance. Moreover, the likert scale criteria was applied to measure the extent of implementation of the aforementioned learning model; the scale involved four criteria: highly relevant (HR), relevant (R), irrelevant (I), and highly irrelevant (HI). Therefore, based on the likert scale, the score of each observation item is presented in the following Table 2.

A	Item score		
Answer choice	Positive	Negative	
Highly relevant	4	1	
Relevant	3	2	
Irrelevant	2	3	
Highly Irrelevant	1	4	
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 Table 2: Score of Each Observation Item (based on Likert scale)

(Arikunto, 2010: 124)

Following the scoring process of the students' answer was the calculation of the percentage of score of each answer item by applying the following formula:

Obtained score Total score X 100

The obtained score percentage was then compared with the score interpretation, as displayed in Table 3 as follows:

Table 3: Assessment Criteria of Observation Sheet			
Percentage	Assessment Criteria		
81%-100%	Very good		
61%-80%	Good		
41%-60%	Moderate		
21%-40%	Poor		
0%-20%	Very poor		

(Arikunto, 2010: 14)

3. Results and Discussion

3.1 Questionnaire data of XII5 class students

The data described in the present research comprise data of students' characters obtained within the implementation of M-learning based Ryleac learning model. The students' characters that were measured involve honesty (18 statements), discipline (16 statements), hard work (8 statements), and self-reliance (15 statements). Hence, the total of students' character items in all classes (XII5, XII6, and XII7) comprise 57 statements. The questionnaire data are generated from the analyzed result of students' answers. The analysis result of XII5 class students' characters during the implementation of M-learning based Ryleac learning model is presented in Figure 1 below.

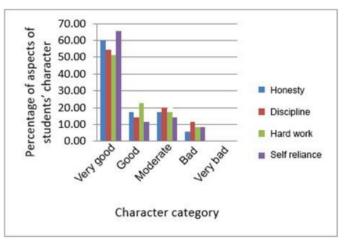


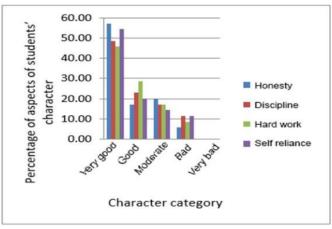
Figure 1: Percentage of XII5 Class Students' Character in the Implementation of M-learning Based Ryleac Learning Model

As displayed in Figure 1, the average percentage of students' character was as follows: 54.05% of the students achieved "very good" category, 21.43% were at "good" category, 15.47% scored "moderate" category, and 9.05% arrived at "bad" category.

Based on the figure, no single student showed "very bad" character. The numbers indicate that the students' character during the learning process that implemented the focused model was very good in overall.

3.2 Questionnaire data of XII6 class students

The analysis result of XII6 class students' characters during the implementation of Mlearning based Ryleac learning model is presented in Figure 2 below.



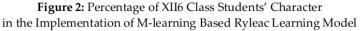


Figure 2 displays that 51.43% of the students achieved "very good" category and 22.14% were at "good" category. Meanwhile, 17.14% of the students scored "moderate" category, and 9.29% arrived at "bad" category. The figure also indicates that no single student showed "very bad" character. The numbers indicate that during the implementation of the focused learning model, the students' character was very good in overall.

3.3 Questionnaire data of XII7 class students

The analysis result of XII7 class students' characters during the implementation of Mlearning based Ryleac learning model is presented in Figure 4.3 below.

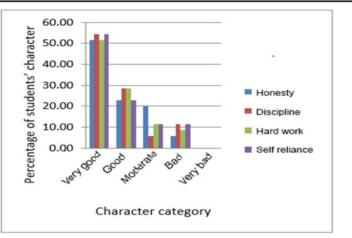


Figure 4.3: Percentage of XII7 Class Students' Character in the Implementation of M-learning Based Ryleac Learning Model

As shown in Figure 3, 51.43% of XII7 class students achieved "very good" category, while 22.14% arrived at "good" category. On top of that, 17.14% of the students scored "moderate" category, and 9.29% were at "bad" category. Based on the figure, no single students arrived at "very bad" category. The numbers indicate that during the implementation of the focused learning model, the students' character was very good in overall.

The overall results indicate that in overall, the students' character (honesty, discipline, hard work, self-reliant) in all classes involved (XII5, XII6, and XII7) were very good. Such notion is apparent from the average score of all class; the "very good" and "good" category achieved 75.48%. The aspect of honesty is described by several indicators: student-focused orientation, high level of heroism, self-acknowledgment of one's weakness or limitation, refraining oneself from cheating when working on an assignment, and avoiding plagiarism. The students were discipline in conducting the learning process that implemented the M-learning based media. Most of the students complied with the learning norms and rules made by the school or set by themselves. Moreover, they worked on the assignment routinely and consistently. The students also showed full eagerness and sincerity to conduct the learning process, despite that the learning materials were delivered indirectly.

Regarding aspect of hard work, the students in all classes arrived at "very good" category. They were able to follow the whole process of learning activity with intensive and committed attitude; regarding of learning results, the students also showed very good quality. Further, the implementation of M-learning based Ryleac learning model is regarded to encourage the students' self-reliance. As based on the results, the students were able to identify their own learning needs. Moreover, they were also competent in indicators, such as time management, preference towards individual assignments, positive competitiveness attitude, effective execution of learning process, and self-

evaluation of learning activity results. This is in line with Abdjul et al. (2019: 427), who state that Ryleac learning model is able to facilitate active and direct learning experience. It also boosts the students' ability to solve questions or problems delivered in the form of story or phenomenon. The active learning element of Ryleac learning is also regarded to encourage the students' learning motivation and is capable of reducing cognitive conflicts in students during learning activity. On top of that, guided inquiry learning model is proven successful to develop students' character of hard work, environment-friendly attitude, and curiosity. The aforementioned characters are regarded as influential to the students' result of problem investigation and resolution during a learning process that implement guided inquiry model (Sinaga, 2014: 234). Guided inquiry model is central to the development of fundamental comprehension of concepts, facts, principles, laws, and theories; in addition, it also nurtures an individual's positive attitude towards science (Chiapetta and Adams in Jauhar, 2011: 84-85).

The integration of Ryleac learning model and M-learning based media is deemed as impactful to the students' character during learning process. This is due to the learning method's strength in aspects such as: 1) the delivery of learning material via systematic application that offers ease of use, and 2) interactive-based based media that attracts the students' eagerness to participate in a learning activity (Wulandari et al, 2019: 583). The use of media in learning process is seen as the effort to creating a meaningful and quality learning activity. Incorporated in physics learning, the learning media is proven to aid the students during learning process (Acedo, 2014). As based on the findings, the Mlearning based Ryleac learning method nurtures the students' positive characters during learning process, particularly in dynamic electricity topic.

4. Conclusion

The results point out that 75.48% of the students in XII5, XII6, and XII7 class were at "very good" and "good" category, while the rest 24.52% were at "moderate" and "bad" category. This indicates that the M-learning based Ryleac learning model was proven impactful to the students' character.

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