E-Module Based on Local Wisdom Ngubat Padi Improves Students’ Social Care Character

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ABSTRACT

The use of teaching materials is essential for a teacher to deliver learning materials. Moreover, the selection of the wrong teaching materials can affect the character of students who will become weak. This study aims to analyze the relationship between social care characters integrated with electronic modules based on local wisdom of rice cultivation. The research method uses associative quantitative research, which aims to link an indicator. The research subjects were fourth-grade students, with the sampling technique being total sampling. The data collection instrument used was a questionnaire. Data analysis used descriptive statistics by using a correlation test to determine the relationship between two variables. The results in this study are that the social character of the students has a suitable category, seen from the indicators of social care character after using an electronic module based on local wisdom, strengthened by the correlation results obtained by 0.969 and produces a positive relationship. Therefore, teachers need to implement electronic modules based on local knowledge in learning to instill social care characters in students.

1. INTRODUCTION

Education is a crucial role holder in a country because education can increase human resources (Sajnani & Mayor, 2020; Tajvidi et al., 2014). Education is easy to understand in knowledge, skills, and attitudes to encourage someone to become disciplined (Eugenia et al., 2013; Maulana, 2021; Mehrtash et al., 2019). Education aims to foster physical and spiritual peaceful thinking so that students become better human beings (Kratz et al., 2019; Marhayani, 2016; Oswald-Egg & Renold, 2021). Education is viewed from its presence in Indonesia and the goals that have urgency for the general public, then the quality of education in Indonesia should be able to increase. Education in the globalization era is the nation’s integration that utilizes technology as a facility in learning to improve the quality of education (Bakirci et al., 2011; Chauhan, 2017; Lynch et al., 2021). Technology and education at this time are very closely related to each other. Both are parallel and have a goal which is to advance Indonesia. Education is an important issue today. Integrating humans and technology has led to extensive knowledge, including learning innovation in...
education (Bravo et al., 2015; Omotayo & Haliru, 2020; Raja & Nagasubramani, 2018). Knowledge of technology in education is quite extensive. Technology is used as an information driver and develops pedagogic competence (Almusawi et al., 2021; Astutti et al., 2021; Tondeur et al., 2019). A teacher's ability will also be more optimal with the presence of technology in education, as is the case in selecting learning media in the form of audio, visual, or technology-based audio-visual (Fu et al., 2019; Müller & Wulf, 2020). However, the current problem is that many teachers still do not use technology in learning (Astalini et al., 2019; Ningsih & Mahyuddin, 2021; Sadimin Sadimin et al., 2017). In addition, teachers find it challenging to develop technology-based learning media (Fisnani et al., 2020; Komikesari et al., 2020). Many classrooms do not use teaching materials such as electronic modules to see the character of students. Teachers prefer pre-existing learning materials (Astra et al., 2020; Raharjo et al., 2017). Lessons given to education in Indonesia are still lacking in using preferred media instead of innovations from teachers who make educational progress less suitable. It is necessary to provide complete information about learning by technological developments (Aprilia & Suryadarma, 2020; Afa et al., 2021). The number of obstacles, teachers must be creative in delivering learning materials to students by their respective portions of the number of subjects.

The learning media used by a teacher must, of course, be able to make it easier for information to be conveyed to students, especially the media used is easy to carry and not easily damaged, such as electronic modules (Logan et al., 2021; Seruni et al., 2020). Electronic modules engage media by utilizing technological devices and packaged in the electronic form to make it easier for teachers to deliver learning materials (Asrial et al., 2020; Herawati & Muhtadi, 2018; Linda et al., 2018). For this reason, it is necessary to develop electronic-based modules. Electronic modules can build active students, concentration, and learning achievement (Ilmi et al., 2021; Perdana et al., 2017). The application of electronic modules provides real learning to students. The system also makes it easier to access learning activities (Darmaji, Astalini, et al., 2019; Handayani et al., 2021). Learning activities provided using electronic modules must be of high quality. Learning does not deviate and has good values for students. Learning with values needs to be integrated using good media and methods and requires a creative teacher (Aina & Tuti, 2020; Kaplan, 2018). As a teacher who conveys information in learning, he must convey the best possible information, allowing the teacher to operate technology (Başöz & Çubukçu, 2014; Mahmoodi et al., 2019). Learning based on local wisdom or local culture is meaningful learning with good moral values for students. The values in learning local wisdom or local culture are targets to reach students who can accept the values given in learning (Baker et al., 2021; Winther-Lindqvist, 2020). With the module as a learning medium, it will be easier for teachers to introduce local wisdom or local culture to students (Lidi et al., 2020; Ngurah et al., 2019). Local wisdom-based learning can shape students' character to have an excellent attitude to the surrounding environment, especially in certain learning materials such as social studies subjects about mutual respect and social science (Budiwibowo, 2016; Joyo, 2018). One of them is a social care character that needs to be instilled in elementary school-aged children to have an excellent social spirit towards their surroundings using electronic modules.

The electronic module is used as a learning medium and a learning guide for a subject that is coupled with technology (Astalini et al., 2019; Elder et al., 2019). Based on the existing track record of having teachers apply electronic modules as teaching materials, it becomes easier for teachers to manage technology (Astra et al., 2020; Darmaji, Kurniawan, et al., 2019; Yulando et al., 2019). Technology, if applied to the application of the module, gives students new learning color. Technology-based will provide exciting learning (Handayani et al., 2021; Seruni et al., 2020). In addition to the ease of running and operating technology, meaningful learning for the teachers and students. The purpose of using the module as teaching material is that the character in students will be formed. Many previous studies have discussed teaching materials that are effective and efficient in learning. The findings of previous studies also stated that E-modules could help students learn (Irwansyah et al., 2017; Rasmussen et al., 2020). Other research also states that E-modules make it easier for students to understand learning to improve student learning outcomes (Hadyanti et al., 2021; Nisa et al., 2020; Susanti et al., 2020). This study applies an electronic-based module to see the character of students. Therefore, the purpose of this study was to analyze the relationship in the implementation of the electronic module based on Ngubat Padi's local wisdom on the social care character of students. As well as knowing the relationship between the indicators of the social care character of students when implementing local wisdom-based electronic modules. It is hoped that the E-module can help students improve the character of social care.

2. METHOD

This research is quantitative research. Quantitative research is a research method used to examine data collection using research instruments. Statistical data analysis is quantitative and a certain population
or sample. This research uses an associative approach, which is connecting research. The population in this study is the total number of fifth-grade students at SD Negeri 76/I Sungai Buluh. The samples used were all students of class V, totaling 30 people. In determining the sample, a sampling technique was used, namely total sampling, in which the technique for determining the sample was taken from the large population. The researcher’s criteria for using total sampling is the number of population that is less than 100. The research instrument uses questionnaires and interviews, and interviews are questions and answers between information seekers and resource persons who understand a good thing with little or small data collection techniques. The interviews used were short questions, with a total of 15 questions. Interviews were also conducted with students to determine student responses to the application of electronic modules based on Ngubat Padi’s local wisdom. The questionnaire was used in a student response questionnaire and indicators of social care character, with several valid questions, 16 items. The reliability is calculated using the formula Cronbach alpha. After the instrument was tested and analyzed for reliability, the reliability coefficient of the politeness questionnaire was 0.680, and for mutual help, it was 0.610, so that it can be concluded that the instrument is reliable. The form of the questionnaire used is a closed questionnaire. That is, for each question or statement, several optional answers have been provided for respondents to choose from using the Likert category of a five rating scale. Likert scale with the type of scale strongly agree (SS), agree (S), not sure (N), disagree (TS), and strongly disagree (STS). On each question that has a positive value in an instrument that has a value of: SS = 5, S = 4, N = 3, TS = 2, and STS = 1. The score is reversed for the value on the negative item.

Table 1. Student Response Questionnaire Grid

| No | Assessment Aspect      | Statement                        | Number of Items |
|----|------------------------|----------------------------------|-----------------|
| 1  | Material               | The material is the same as the existing learning | 4               |
| 2  | Module Contents        | Structured module content        | 3               |
| 3  | Module view            | Attractive module display        | 4               |
| 4  | Module language        | Easy to understand               | 5               |
|    |                        | Provide clear information        | 4               |
|    | **Total**              |                                  | **16**          |

Table 2. Social Care Character Questionnaire Grid

| No | Assessment Aspect     | Statement                                      | Number of Items |
|----|-----------------------|-----------------------------------------------|-----------------|
| 1  | Politeness            | Speak good words                              | 4               |
| 2  | Mutual respect        | Respect other people’s opinion                 | 3               |
| 3  | Greet                 | Say hello to teachers and friends wherever it is | 4               |
| 4  | Help each other       | Helping a friend who is in trouble             | 5               |
|    |                       | Help someone who needs help                   | 4               |
|    | **Total**             |                                                | **16**          |

Electronic module validation is the validation of several experts, namely linguists, media experts, material experts, and practitioner experts. The four experts went through the stage of filling out the validation sheet, which was sourced from the modified results of the 2016 BSNP source. The module validation was aimed at seeing whether or not the electronic module was applied to classroom learning. The instrument for assessing the validity of the electronic module based on local wisdom is arranged in the form of a Likert scale with a positive statement. The data from the responses of several experts were analyzed in the following two steps, namely firstly adding up the total score of each expert for all indicators and secondly giving the validity value by using the method, the total score obtained was divided by the maximum score and then multiplied by 100%. The analysis of the validity of the module was carried out using descriptive statistics, the results of which were depicted through graphs. The validation score becomes a value with a range of 0-100. The results obtained are then interpreted with the following criteria. Data analysis in this study uses descriptive statistics and inferential statistics. Descriptive statistical information is statistical information used to analyze data by describing or describing the data collected, without the intention of drawing conclusions that can be applied in general or generalizations (Riduwan, 2013). This study uses descriptive statistics using the maximum, minimum, and mean values. Whereas inferential statistics is a statistical calculation used to analyze data from a sample, the results will be generalized or concluded for the population from which the sample is taken.
3. RESULT AND DISCUSSION

Result

The application of electronic modules in classroom learning through the validation of several media, language, material, and practitioner experts with the results obtained is at a percentage of 61 - 80% with a decent category. Therefore, the electronic module based on the local wisdom of Ngubat Padi is feasible to be used as teaching material during learning at school. Besides being validated by experts, the module can instill social care characters in students because the local wisdom used is closely related to the values of social care characters. From the character of social care, several indicators are used as essential aspects in the character of social care. Indicators of the social care character of students are used to see the relationship with the use of electronic modules during learning. Eighteen indicators of the student's character are the value of social care character. The value of this social care character has a significant relationship with student learning outcomes obtained. It means that the value of social care character has a significant correlation with student learning outcomes. In this study, the character of social care is divided into several indicators. Based on the results of data analysis, it can be shown that the table above shows the results of social care based on indicators of courtesy and mutual help. The categories of students by looking at the indicators of the manners of students at school: the category of lousy character students as much as 3.33% (1 out of 30 students), students with wrong categories as much as 10.00% (3 out of 30 students), students with categories enough as much as 26.66% (8 out of 30 students), students with good category as much as 36.66% (11 out of 30 students), and students with outstanding category as much as 23.35% (7 out of 30 students). Meanwhile, based on the character indicator scale, the data results above show that the data obtained is a mean value of 65.8, a maximum of 71, and a minimum of 56.

Students by looking at the indicators of helping each other at school: the category of lousy student character is 6.67% (2 out of 30 students), students with the lousy category are 13.33% (4 out of 30 students), students with lousy category 23.33% (7 out of 30 students), 33.33% good category (10 out of 30 students), and 23.35% very good (7 out of 30 students). Meanwhile, based on the character indicator scale, the data above shows that the data obtained is a mean value of 84.00. A maximum of 91, and a minimum of 62. Students’ response by looking at the application of an electronic module based on Ngubat Padi local wisdom indicators of courtesy and helping each other is good as many as students in the excellent category of students as many as 33.33% (10 of 30 students). And students with very good categories, as many as 33.33% (10 of 30 students). While the response to the character indicator, please help students in the category of 36.66% (11 out of 30 students). And students in the very good category as many as 23.35% (7 out of 30 students). From the results of the two responses, the responses given by students on the application of the module are included in the good category. From the normality test, it can be seen that the significant value resulted from the normality test. Based on Kolmogorov-Smirnov from t-test, the sig value > 0.05. The normality value of 0.382 in the sig normality value means that the existing data is normal because the sig value is > 0.05. In addition to the normality test, a linearity test was carried out on the data with a significant value resulting from the linearity test above the sig value > 0.05. Then the data was said to be linear. The correlation between the two indicators of social care character, namely courtesy and mutual help with student responses, is 0.969. The relationship between the two indicators is strong, with a probability value of 0.000 < 0.005, so it can be concluded that both indicators are significant. It can be concluded that there is a relationship between the indicators of courtesy and mutual help with students' response to the application of the electronic module based on Ngubat Padi local wisdom with an R-value of 0.969 and a positive value.

Discussion

The social care character indicator of polite students becomes the first benchmark to see the social care character. Politeness is generally a rule of life that results from the interaction of social groups (Djuwita, 2017; Putrihapsari & Dimyati, 2021). Students’ manners at school and in their lives (Fitriani, 2019; Nurtanto et al., 2019). The teacher can take advantage of the students' trust in him. Teachers can

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Table 5. Criteria For Validation Of The Modified Likert Scale Electronic Module

| Percentage | Criteria          |
|------------|-------------------|
| 0 – 20     | Not feasible      |
| 21 – 40    | less worthy       |
| 41 – 60    | Decent enough     |
| 61 – 80    | Worthy            |
| 81 – 100   | Very Worthy       |

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apply several ways and methods to implement manners to students, for example, by implementing an electronic module to see student manners at school (Hartini, S. et al., 2018; Imamah & Susanti, 2021; Marhayani, 2016). In addition to manners, another indicator of caring social character is to help (Serbin et al., 2020; Sulatri et al., 2019). Supported by the results obtained from descriptive statistics on the indicators of helping to show a positive attitude when implementing the electronic module and seen from the results of data analysis that 33.3% of students or 10 out of a total of 30 students were in a suitable category. It is also supported by the mean result of 84.00 which, the range is a good category. Please help is expected not to discriminate against who will be helped, regardless of class, rank, religion, race, age, and gender (Serbin et al., 2020; Supriyadi et al., 2019). Regardless of class, class, religion, race, age, and gender, please do not expect help from people who get help. Helping needs to be done or applied in everyday life, both at home, at school, and in the community (Abu Bakar et al., 2018; Rosala & Budiman, 2020). Indicators of helping students refer to students’ attitudes towards their social environment. Another way to help is to help each other in the social life around us (Madleňák, 2015; Muthuprasad et al., 2021).

From the data obtained, it was concluded that the electronic module technically got an excellent category. Thus, the electronic module was judged from the language, media, material, and practitioners it was feasible to use as a learning resource in a lesson. The electronic module is considered to have a beautiful appearance, the material presented is systematic so that it is easy for students to understand, provides higher learning interest, the character of students can be formed according to the material in the module (Astålin et al., 2019; Hamid et al., 2021; Syahroni et al., 2016). Previous research applies electronic-based modules to see student learning outcomes. Research conducted assesses that the application of electronic modules is considered more practical and efficient (Fisani et al., 2020; Ningsih & Mahyuddin, 2021; Sadimin Sadimin et al., 2017). The position of this study with previous research is the electronic module as a form of measuring student learning outcomes and student character as a variable in the study. The novelty of this research is on the variables studied, namely indicators of social care character. In class V, theme 8, Sub-theme 1, Learning 3, using the Kvisotf Flipbook maker technology device, the first character is politeness, and the second is helping each other. These two indicators are seen after applying the electronic module in this study to see the relationship between the application of the electronic module and the indicators of social care character. Whereas in previous studies, many researched the relationship with social care characters, not on character indicators. The implication of the research on the relationship of social care characters to learning responses is that they can be used as teaching materials in learning for fifth-grade students in Theme 8 and Sub-theme 1 of learning 3 in finding out the diversity of local wisdom in the local province, Jambi Province, to be precise. The implication given to students is to positively impact student learning outcomes because students will more easily access and absorb learning materials. At the same time, a teacher can find or develop teaching materials other than the teaching materials provided by the school. In addition, it becomes a teaching material that suits the needs of students and can be used as a source of independent learning. The limitations of this study are that this electronic module is limited to essential competencies for class V, theme 8, sub-theme 3, learning 3, which is based on the local wisdom of Ngubat Padi. This research recommends that electronic modules based on Ngubat Padi’s local wisdom be applied to the character of environmental care, social care, and discipline.

4. CONCLUSION

The application of electronic modules in classroom learning through expert validation gets a proper qualification. The responses given by students on the application of the module were included in the excellent category. There is a relationship between the indicators of courtesy and mutual help with students’ responses to the application of electronic modules based on Ngubat Padi’s local wisdom. The character of social care will grow well if the student’s environment also encourages it.

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