

# Nature School Management Based on Religious Culture

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**Abstract**—This research aims to describe (1) the management of a nature-based learning; (2) the integration of religious culture on the learning process; (3) the educational values contained in the learning process based on religious culture; and (4) the preservation of wood fossil museum as a learning resource. This research uses a qualitative approach with case study design. The research results shown: (1) the learning management applied in the school is a natural-based scientific learning approach that utilizes nature as space, media and learning object; (2) The integration of religious culture values in learning is held from the start to the end of learning activities; (3) the educative values embodied in nature-based learning include the values of: religious, creativity, patriotic, reading fondness and environmental concern; (4) wood fossil museum is used as learning resource for students, society and as research object.

**Keywords**—*management; school of nature; religious culture*

## I. INTRODUCTION

The school of nature is a place to learn by using nature as space, media and learning objects in the process of learning. The learning method of nature school uses learning approach based on experience (learning experience). Through this method, participants are invited to do various activities, both inside of school and outside of school. With the various activities, the learning process takes place actively, innovatively, creatively, effectively and fun. This is in line with the statement of National Research Council that a major goal of schooling is preparing students for flexible adaptation to new problems and settings [1]. An important index of adaptive and flexible learning is obtained from students' abilities to transfer what they have learned to new situations. Furthermore, students develop flexible understanding of when, where, why, and how to use their knowledge to solve new problems if they learn how to extract underlying themes and principles from their learning exercises. Understanding how and when to put knowledge to use—known as conditions of applicability—is an important characteristic of expertise. Learning in multiple contexts most likely affects this aspect of transfer.

Bubohu Private Vocational High School of Tourism is a private vocational high school in the district of Kabupaten Gorontalo, province of Gorontalo, Indonesia, which the focus of the development is in the field of tourism. The school is under the auspices of the *Walimah* Gold Foundation whose the existence characterized by a nature school because of the

physical condition of the school and the system which built on nature. Most of the learning activities are carried out outside of the classroom. The learning activities is carried out in the outdoors and in *wombohe* (typical huts of Gorontalo) that built around the school or outside like on the beach. This is in accordance with research conducted by Robert A. Montgomery and Kelly F Millenbah shows that students who learn outside the classroom are significantly better than students who learn in the classroom [2]. National Research Council also states that many classroom activities stress the importance of memorization over learning with understanding [1]. Many, as well, focus on facts and details rather than larger themes of causes and consequences of events. The shortfalls of these approaches are not apparent if the only test of learning involves tests of memory, but when the transfer of learning is measured, the advantages of learning with understanding are likely to be revealed.

In addition to the nature-based, Bubohu also integrates the value of religious culture in the learning activities by providing the moral education that is integrated in the school activities. The students of the school are also familiarized to do religious culture so as to form a strong character. This is in line with the statement of Wardekker and Miedema that the religious education is in need of a new interpretation and new school practices in order to remain meaningful in our present culture [3]. The positive culture that is taught and has become a habit in Bubohu is 3S culture (*Senyum* (smile), *Salam* (salutations), *Sapa* (greetings)), praying dhuha and dzuhur in congregation, dhikr and *shalawat* together, the culture of BATU (*Baca Tulis* (reading and writing)) and guiding practice. All students are required to participate, as it has become the programs of the school.

To increase the religious values, at night, the school conducts the recitation of Al-Quran activities at Pesantren Alam Bubohu. In addition, students are also taught various cultures in extra-curricular activities to preserve the culture of Gorontalo. Reciting Al-Quran, the Muslim holy book, is conducted to equip the students and the surrounding community about the science of religion, so that the mission of the school not only produce a knowledgeable output but also the noble character.

Another uniqueness of Bubohu appears on the school concept that combines elements of nature, history, culture and religious values which are very thick, thus creating a nature

school that not only explore nature as a place and media of learning, but also loaded with historical, cultural and religion that is packed into a unique unity because it becomes the first and only one in Gorontalo Province.

This research aims to describe: (1) the management of nature-based learning (2) integrating the values of religious culture on (3) the educational value contained in the process of learning based on religious culture, (4) preservation of wood fossil museum as a learning resource at Bubohu Private Vocational High School of Tourism.

The results of this study support the research conducted by May concluded that the quality of learning outside the classroom provides a very valuable experience for students [4]. It can be interpreted that nature-based learning conducted outside the classroom can improve students' understanding of the material presented by the teacher.

Focus of this research is observing and analyzing the achievement of Bubohu in their implementation of nature-based learning method which is integrated with the religious school culture values in their students learning and daily activities.

## II. RESEARCH METHOD

This research uses a qualitative approach with the type of the research is a case study. The researcher are as the key of instrument. The presence of researchers at Bubohu is non-participant but directly involved in the data collection from the beginning to the end of the study. Researchers make their own observation tools, interview guidelines and documentation guidelines used as a general guide in the process of recording.

The type of data in this research is qualitative data according to the objectives studied, namely: the management of nature school based on the religious culture. The subject of the research are principal as the key informant, vice principal of the curriculum field, vice principal of student affairs field, delegation of normative teachers and delegation of the student as subjects who receive the learning. The determination of research subjects is based on snowball sampling.

Data collection techniques are conducted by: (1) interview, (2) observation, and (3) documentation. While data are analyzed by using: (1) data collection, (2) data reduction, (3) data presentation, and (4) drawing conclusion. Validity testing of the data is done through the test of: (1) credibility, (2) transferability, (3) dependability, and (4) confirm ability.

## III. RESULTS OF THE RESEARCH

### A. Management of the Natural-based Learning

The results of research at Bubohu shows that the management of applied learning of this school looks different from the other schools in general because it applies the natural-based learning. The teachers carry out the outdoor learning by utilizing the nature both inside the school and outside. The difference lies in the learning process while the lesson plans and syllabus have no different from other schools.

Schematically, the results of the research can be seen in the following context diagram in figure 1:

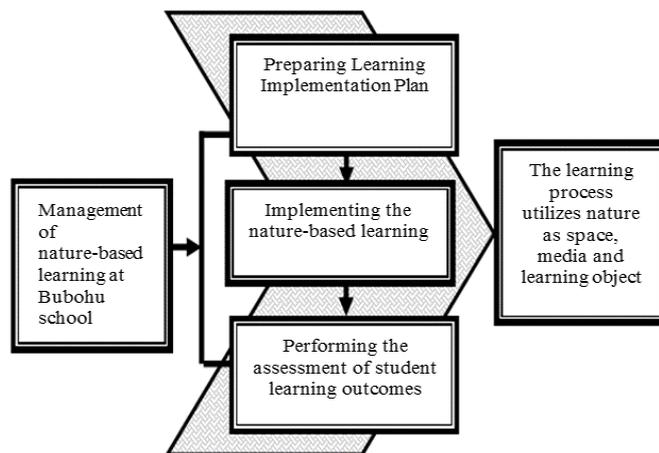


Fig. 1. Context diagram of the management of the natural-based learning in Bubohu Private Vocational High School of Tourism.

Context diagram obtained through the results of observation, interview and documentation study of all phenomena related to the management of natural-based learning in Bubohu. The results show that there are three stages of natural-based learning management at Bobuhu namely the stage of planning, implementation and assessment. At the learning planning stage, the teacher prepares the Learning Implementation Plan (LIP) containing the competency standard, basic competency, indicators, objectives, materials, methods, steps, developed life skill aspects, learning resources, media and assessment. The LIP developed by the teacher have not demonstrated the nature-based learning model applied.

At the implementation stage, teachers should use a natural-based learning model using nature as a place, media and learning resources. But the facts in school show that the teacher has not used natural-based learning model, thus giving less optimal impact in supporting the optimization of natural-based learning management.

In the assessment phase, the teacher develops a natural-based learning assessment that includes three things: observation, anecdotal notes, and fortfolio. This is in accordance with research conducted by Sabzian et al. states that the teacher is one of the important foundation in conducting the assessment properly and correctly to improve student learning achievement [5]. Therefore, various assessments with observers, anecdotal and fortfolio records need to be done thoroughly and completely.

### B. Integrating the Value of Religious Culture in Learning

The integration of the values of religious culture in learning appears in the beginning and in the end of learning activities, while core learning activities have not been integrated with religious cultural values except in the subjects of religious education. In the early activities of learning, students must pray a prayer led by one student. After the prayer is over, the teacher invites the students to jointly give thanks to The One Almighty God for all the blessings has been given. The culture of prayer

teaches the students to always start the activity with prayer and thankfulness.

The same is done at the end of the lesson, where the students pray and give thanks as the lesson has been finished with the hope that it may be useful. Other findings indicate that in core learning activities, teachers do not integrate religious cultural values except on religious education subjects. This is done because on other subject matter there is no sub-competence and basic competence that can be integrated with the religious culture. In summary, it can be seen in the context of the diagram in figure 2:

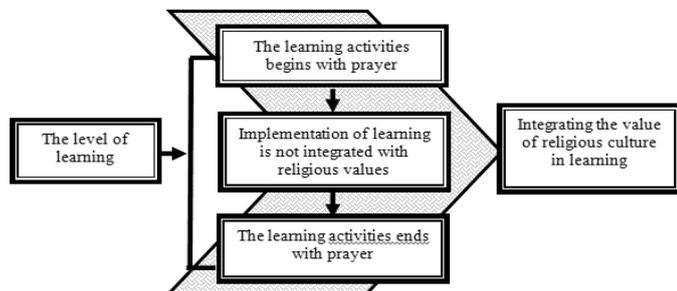


Fig. 2. Context diagram of the integration of the religious cultural values on learning in Bubohu Private Vocational High School of Tourism.

The process of integrating the values of religious culture on learning in Bubohu on the early activities of learning is realized with a culture of prayer every time a new lesson begins. The habit of praying before beginning the lesson is taught to believe in God and always start the activity by praying and pleading to God.

In the core activities of learning, the value of religious culture appears on the subjects of Religious Education and the other subjects. But the process of material integration in the lessons with religious cultural values has not been able to form a religious person who is religious and diligent in performing worship according to his religion and belief. This is as a consequence of the implementation of learning that is not integrated with religious values.

The integration of religious cultural values in closing activities is indicated by praying together as done in the initial activity and continued with an expression of gratitude to God because the lesson has been completed.

C. Educational Value in Religious-based Learning

The result shows that the educational values contained in natural-based learning in Bubohu include: religious, creativity, patriotic, reading fondness, and environmental concern. In summary, the results of the research can be illustrated in the following conceptual diagram in figure 3:

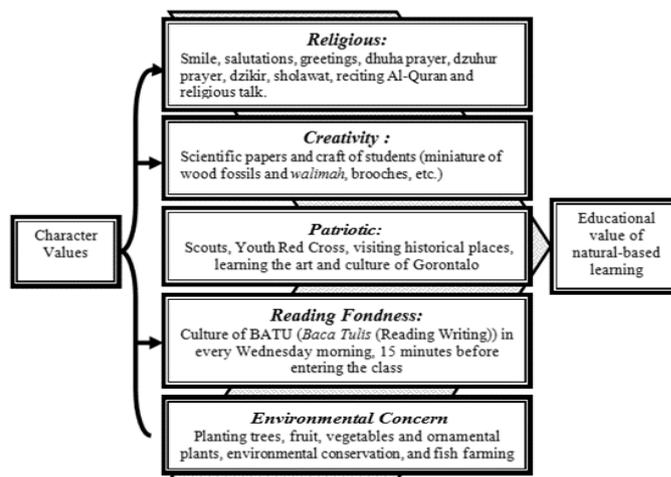


Fig. 3. Educational value of the natural-based learning in Bubohu Private Vocational High School of Tourism.

First; religious, which is indicated by 3S culture (*Senyum* (smile), *Salam* (salutations), *Sapa* (greetings)), dhuha prayer in congregation culture in every Tuesday, dzuhur prayer in congregation every day, and reciting Al-Quran.

Second; creativity, is shown by activities that sharpen the creativity of students in writing scientific papers and craft making such as miniature souvenirs of wood fossil and miniatures of *walimah* (wedding event) which is a typical souvenir from Bubohu.

Third; patriotic that is shown by the activity of the students in extra-curricular activities such as Scouts, Youth Red Cross, visiting the historical sites in Gorontalo Province and the implementation of arts activities that introduce the students to various traditional arts such as saronde dance, tidi dance, longgo dance and craft of *karawo* (typical cloth of Gorontalo) to foster the love of the region and the country.

Fourth; reading fondness that is shown with the culture of BATU (*Baca Tulis* (reading writing)) which is held every Wednesday morning before the lesson begins.

Fifth; environmental concern demonstrated by preserving the environment, by planting and maintaining trees both inside the school and outside the school environment.

D. Preservation of Wood Fossil Museum as a Learning Resource

Observations and interviews on the preservation of the wood fossil museum as a source of learning are illustrated in the following conceptual diagram in figure 4:

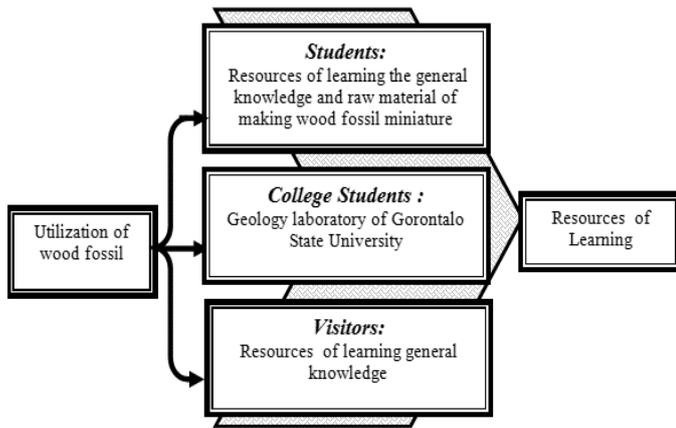


Fig. 4. The conceptual model of the wood fossil preservation as a learning resource in Bubohu Vocational High School of Tourism.

Bubohu stores the largest wood fossil in the world, ranging from 5,000 (five thousand) fossils premises of about 1.8 million years according to the research results that be held by scientists from Japan.

Besides being an artifact containing historical value, the fossils in Bubohu are also used as learning resources by students and visitors to add information and their knowledge about wood fossil which is not found in many places. Students utilize the wood fossil not only as a learning resource for one particular subject but also as additional knowledge in general. Students are given information about wood fossil in order to provide an explanation if the visitors ask about the existence of wood fossil. Small wood fossil fragments are produced by the students to becomesome miniature souvenirs which are sold to visitors as a typical souvenir Bubohu.

Wood fossils are also a source of learning for visitors and other parties such as college students. The existence of this fossil is utilized by Gorontalo State University as alaboratory of Geology.

As for visitors, wood fossils are one source of learning for them. Any visitor who comes to school can request information about the existence of the wooden fossil.

#### IV. DISCUSSION

##### A. Management of the Natural-based Learning

Management of learning is one of the school authority as set forth in Law No. 32 Year 2004 regarding to *Regional autonomy* dan Law No. 20 Year 2003 about the system of National Education. In the law, it is defined in terms of the authority and responsibility of schools within the School-Based Management framework includes [6]: (a) management of learning and teaching process; (b) planning and evaluation of school programs; (c) the management of the curriculum; (d) management of personnel; (e) the management of equipment and supplies; (f) management of financial; (g) student services; (h) relationship between the school and the community; and (i) the management of the school climate. This shows that the school has autonomy in terms of management of learning and teaching process. The learning and teaching process should be

supported by learning tools including Learning Implementation Plan, Syllabus and Assessment of Student Learning Results.

This learning tool is an administrative obligation that must be prepared by the teachers as the basis of guidance in carrying out the learning activities. The learning implementation tools include some information about the standards of competency, basic competency, learning objectives, subject matter, learning methods, learning steps, instructional media, sources and techniques of assessment. With the RPP, syllabus and the assessment of student learning results, it can facilitate teachers in implementing learning.

The result shows that in the implementation plan of learning compiled by the teachers of subjects, it does not seem any natural-based learning. There is no difference between the implementation plan of learning in Bubohu with the other schools in general. This means that Bubohu has not developed a natural-based learning implementation plan. In the assessment of learning outcomes, assessment techniques used are also developed into natural-based assessment techniques. Although already using several types of assessment, the assessment remains very monotonous because the ability of teachers less than optimal.

The other result shows that in the assessment of student learning results techniques that have been used, it also are not developed into the natural-based assessment techniques. The assessment is so monotonous so that the natural-based learning activities are not accommodated in the assessment of student learning outcomes. The result of the research is supported by the evidence in the form of the learning plan of each teacher and the assessment format used for the assessment of student learning outcomes.

Other research results show that natural-based learning aims to bring the students closer to nature, to teach students to love the nature and to love the Creator of the universe. Another goal is to build a strong psychology, morals and mental entrepreneurship. Furthermore, the benefits of the natural-based learning are the students become very concerned with the environment and natural surroundings. The habit of learning with nature and the environment makes the students more grateful and closer to the Creator. It is seen from the learning point of view where the students are not bored and drowsy so they feel more comfortable. In addition, natural-based learning makes the emotional connection of the teachers and students are closer. This is supported by Bay research which concludes that learning outside the classroom with direct practice and conducting live experiments with a pleasant natural atmosphere will enhance the ability of positive and creative thinking of learners [7]. This can be interpreted that learning in the open will make the students more creative.

The description of the research results is similar to the concept of the School-Based Management which gives the school a chance to provide better and more adequate education for the students [9]. With the existence of natural-based learning, the purpose of national education that is creating a generation of believers and cautious to The One Almighty God, who has the noble character, healthy, knowledgeable, capable, creative, independent, democratic and being responsible can be accommodated as a whole [6].

Based on the above explanation, it can be concluded that the Bubohu implements natural-based learning by utilizing nature as a place, media and learning resources. Natural-based learning has a very positive impact because it provides an active, creative, innovative and fun learning environment.

#### *B. The Integration of Religious Cultural Values in Learning*

The religious culture is one of the school culture developed in Bubohu. The religious culture which is developed by the school is the part of the concept of Bongo Village as a religious tourism village. The religious culture is developed for familiarizing the students with the positive things, so that the habits become the values and norms that will be able to be adopted by the member of the school. This is in line with the views of Masaong and Wohlstetter, which states that school culture is [10,11]: (1) the determinant of how energy and structures of the school are transformed into useful work; (2) the value of the school system that will affect on how the work is done and how the member behave; (3) constructed from the belief that held deeply about how schools should be managed or operated; (4) a system of meaning-sharing among the school members distinguishing one school from another.

The explanation above implies that the school culture built by Bubohu is a religious culture that is agreed and implemented by all member of the school. The religious culture is not just a slogan but as a value system of the school so that all the activities in the school become religious value. In addition, by embracing the religious culture, it gives a different color that distinguishes Bubohu with the other schools.

#### *C. The Educational Value Contained in the Religious-based Learning*

The value of education is the positive values contained in natural-based learning. The results showed that there are many educational values contained in the natural-based learning in Bubohu include: 1) religious, which is indicated by 3S culture (*Senyum* (smile), *Salam* (salutations), *Sapa* (greetings)), and in the religious activities; 2) creativity, is shown by activities that sharpen the creativity of the students in writing scientific papers and craft making such as miniature souvenirs of wood fossil and miniatures of walimah (wedding event) which is a typical souvenir from Bubohu; 3) the love of the homeland that is shown by the activity of the students in extra-curricular activities such as Scouts, Youth Red Cross, visiting the historical sites in Gorontalo Province and the implementation of the various arts activities; 4) reading fondness that is shown with the culture of BATU (*Baca Tulis* (reading writing)) which is held every Wednesday morning before the lesson begins; and 5) environmental concerns.

The results above show that the value of education in religious-culture-based learning developed in Bubohu adopted from the value of character education nation developed by Ministry of Education and Culture of Indonesia. The character education is intended to form a moral personality and noble character. This is in line with the opinion of Lickona who states that character education is education to form the personality of a person through a moral education where the results can be

seen in his actual actions include good behavior, responsible, respect for the rights of others, hard worker and etc. [12].

Furthermore, according to the Ministry of National Education (center of curriculum), on the development of cultural education and character of the nation there are 18 (eighteen) national character values, but the education unit can determine the priority of development, so that Bubohu raised 5 (five) while they still integrating the value of other characters in learning.

Other research results show that the Bubohu as a nature school has been familiarizing the students to develop positive cultures so that the school not only produces students who has the intellectual intelligence but also have the spiritual and emotional intelligence.

#### *D. The preservation of the Wood Fossil Museum as Learning Source*

Bubohu stores the largest wood fossil in the world, ranging from 5,000 (five thousand) fossils premises of about 1.8 million years according to the results of research of scientists from Japan. Besides being an artifact containing historical value, the fossils in Bubohu are also used as learning resources by students and visitors to add information and their knowledge about wooden fossils which is not found in many places.

The students utilize the wood fossil museum not only as a learning resource for one particular subject but also as additional knowledge in general. Students are given information about the wood fossil in order to provide an explanation if the visitors ask about the existence of wood fossil. The small wood fossil fragments is processed by the students to become some miniature souvenirs which are sold to visitors as a typical souvenir Bubohu.

The existence of this fossil is not only utilized by the students but also the visitors and by Gorontalo State University where they use the museum as a laboratories of Geology to observe the wood fossil. This is in line with the concept of a nature school developed by Lendo Novo. In addition, the leader of the foundation was inspired by the life of Prophet Muhammad SAW whom learn things from nature. Through the support of the professional teachers and the availability of library books as the window of the world, the students are printed as a smart generation who have good morals and entrepreneur spirit.

## V. CONCLUSIONS

Based on the results of the research and discussion, it can be concluded that the natural-based learning management in Bubohu Private Vocational High School of Tourism is using nature as a space, media and learning objects. The integration of religious cultural values in learning at this school appears in the beginning and in the end of learning activities. In the core of the learning activities, the teachers do not integrate the values of religious culture. The educative values contained in the natural-based learning at this school include: (1) religious, (2) creativity, (3) patriotic, (4) reading fondness, and (5) care about the environment. The wood fossil museum in this school

is used as a source of learning and character development by students, college students and visitors.

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