

**ANALYSIS OF STUDENT AND TEACHERS BEHAVIOR ON BIOLOGY LEARNING PROCESS AT SECOND GRADERS OF NATURAL SCIENCE OF ENSINO SECUNDÁRIO 4 DE SETEMBRO UNAMET DILI - TIMOR LESTE**

**TERESA PINTO,**

Master Program in PIPS, Post Graduate Program of Nusa Cendana University  
Jln. Adisucipto Kampus Baru Penfui - Kupang, NTT – Indonesia  
Email: [pintoteresa270@gmail.com](mailto:pintoteresa270@gmail.com)

**ABSTRACT** - Research Objectives 1) Knowing the behavior of students in the process of learning Biology. 2) Knowing Master's behavior in biology learning process. 3) Knowing the teacher's performance in the biology learning process. 4) Knowing Master's motivation to improve student's achievement in Biology learning. 5) Knowing the supporting and inhibiting factors that influence student's and teacher's behavior in the biology learning process.

This research was conducted by using qualitative descriptive method. Data collection techniques implemented by interactive and inter subjective. This technique is used to explore in the field with the approach of communicative action using field observation techniques or participant observation/participant observation, interview and documentation study.

The results showed that "Students are the main actors in learning, so that the learning process should be their social so that students' ability in terms of cognitive, affective, and cognitive will experience the development. Teachers as educators and mentors for students then teachers have an important role in improving student achievement. To find out student achievement then the indicator is used as a benchmark in stating that a teaching and learning process can be said to succeed. In communication and attitude changes will always be done in the learning by teachers and students. In a learning teacher and students together become actors for the implementation of learning objectives.

**Keywords:** *Behavior of student and teacher, Learning, Biology.*

## **I. INTRODUCTION**

### **1.1 Background**

Education is the process by which a person is taught to be loyal and obedient, also thinking and nurtured and developed. The statement is one of the concepts of education that emphasizes how important the role of education in fostering human beings, meaning education as an activity of mental and mental attitude that will determine a person's behavior. Therefore, to preserve the behavior of an educator must be a good discipline. Education for the life of mankind is an absolute necessity that must be fulfilled throughout life. Because without education it is absolutely impossible for a group of people to live up to the ideals of a person to progress, prosper and be happy in the outlook of every human life.

According to Law no. 20 of 2003 on the National Education system, Education is a conscious and planned effort to create an atmosphere of learning and learning process so that learners actively develop their potential to have spiritual strength, self-control, personality, intelligence, noble character, and skills needed society, nation and state. The nation will advance if it has the next generation who mastered the science of education and technology. One effort can be done to improve the quality of education through improving student learning outcomes.

Student learning outcomes can be determined by measuring the level of effectiveness. The quality of learning in the classroom is a major factor in the achievement of learning objectives. It is also a formation of student mindset that will affect to actions and attitudes of children in the environment outside school. The learning process can be achieved through improving the quality and the knowledge of teachers, on other factors such as principals, librarians, magazines, videos, media and resources. Another factor which benefits is media as supporting learning. The ability to choose types of media and methods in learning process is an important point to get maximum results. The use of instructional media should be adjusted to several things such as student characteristic and learning objectives.

Ki Hajar Dewantoro in 1930 explains that education in generally have power to promote the growth of character (mental strength, character), mind and body of children, which is not separated in order to describe the opportunities of life, in life and livelihood of children we learn in harmony with his world.

School is an institution with a well-organized organization and all its activities are planned in accordance with the curriculum issued by the government through the ministry of education, namely:

- a. Helping the family environment to educate and teach, improve and extend the level of behavior of learners children under the family and help develop talent.
- b. Developing the learner's personality through the curriculum to:
  1. Learners can associate with teachers, employees, with their own friends and the surrounding community.
  2. Learners learn to obey the rules or know the discipline.
  3. Preparing learners to participate in community based on the prevailing norms.

Teacher is one of the most important parts of education. In the process of education in schools, has a dual role as a teacher and educator. As teacher, Teachers play a role in providing understanding on a number of subject matter to the students, while as educators in charge of guiding and nurturing learners to become human in this case human capable, creative, active and independent. Therefore, the heavy teacher's task can be implemented by teachers who have good professional. Teachers are an influential component in improving the quality of education in schools. Therefore, professional competence of teachers can be developed from time to time, (Joko, in Wahjosumidjo, 2002: 45).

Attitudes of teacher is influenced by internal factors, namely physiological and psychological factors, as well as external factors, namely the situation faced by individuals, norms and various obstacles and encouragement in society, . Teacher's attitude to the work affects the teacher's actions in carrying out its work activities. If a teacher has a positive attitude towards his work, then the teacher will perform the function and position as a lecturer and educator in school with a sense of responsibility. Similarly, a teacher who has a negative attitude towards his work, he only performs the function and position is limited to mere reunites. Teacher's who have a positive attitude towards his work has a high work motivation, reflects a teacher who is able to work professionally and have good competence.

Education for a developing nation such as the nation of East Timor is now an absolute necessity that must be developed in line with the development guidance in stages. Education that is managed in an orderly, effective, and efficient manner (efficient and effective) will be able to accelerate the nets of the nation-culture process based on the creation of the general welfare and the intelligence of national and state life. However, to realize the welfare and intelligence of a nation needs to prepare the generation through improving the quality of education. Ensino

Secundaria 4 de Setembro School UNAMET Dili is a public school and is located in a residential area with busy road access. It has been physically giving a picture of noise and atmosphere that is less conducive in achieving student learning outcomes and also the work of teachers themselves. In terms of leadership of this school there continues to be change Principal in accordance with government policy.

Based on the description above, the researchers wanted to conduct research with the title "ANALYSIS OF STUDENT AND TEACHERS BEHAVIOR ON BIOLOGICAL LEARNING PROCESS AT SECOND GRADERS OF ENSINO SECUNDARIO 4 DE SETEMBRO UNAMET DILI TIMOR LESTE".

### **1.2. Research Focus**

1. How is the student's behavior on Biology learning?
2. How is the teacher's behavior in biology learning?
3. How does teacher performance affect the biology learning process?
4. How is Teacher's motivation to improve student's learning achievement in biology learning?
5. How are the supporting and inhibiting factors affecting the behavior of students and teachers on Biology Learning?

### **1.3. Research purposes**

1. To analyze student's behavior in Biology learning process
2. To analyze Master's behavior in biology learning process
3. To know the performance of teachers in the biology learning process
4. To know Master's motivation to improve student achievement in Biology learning.
5. To know the supporting and inhibiting factors that influences the behavior of students and teachers in the biology learning process.

### **1.4. Research Benefits**

Benefits derived from this research are as follows:

1. for researchers:  
This research can add insight researchers about a behavior of students and Teachers in Biology learning.
2. for teachers:  
This research provides information on student behavioral and teacher in biology learning.
3. for Students:
  - a. Provide useful information in the development of future student learning achievement.
  - b. Provide information on how students can motivate themselves in improving learning achievement

## **II. RESEARCH METHODOLOGY**

### **2.1. Research Subject / Informant**

The subjects in this study were the principal of the school principal of Ensino Secundaria Publico 4 de Setembro UNAMET Dili Alberto da Costa Braz, L.Ed, as Principal, Miguel da

Costa, L. Ed, biology teacher, second grade student of IPA Anita Geovania, Albertinha Indira Aroujo, Angelica Amaral Costa, all of whom are 5 people.

## **2.2. Research Instruments**

The key instrument in qualitative research is the researcher himself. According to Sugiyono (2013: 305), Researcher is Instrument or research tool "It is he who holds his own observations or unstructured people, often only using notebooks. Researchers will plunge their own spaciousness, both at the stage of data processing, analysis and make conclusions.

Based on the statement above, in this study the researcher will be directly in place of research to intensively collect data with research techniques of data collection determined. Researchers at the same time make planning, implementation, data collection, interpreting and in the end he also reported the research.

## **2.3. Data Sources and Data Types**

Source and type of data as data source in research Data taken and then analyzed are:

- a. Primary data source is Source of data to be obtained by way of interview with teachers and students, as well as observations in Ensino Secundaria 4 de Setembro UNAMET Dili.
- b. Secondary data sources are: Data sources can be by collect documents or reports of relevance to this research in order to obtain information clearly. Secondly data, the researcher took from the results of the interview with the principal.

## **2.4. Data collection technique**

### **a. Observation Technique**

Observation technique is a systematic observation and recording of the symptoms studied. Based on the observed involvement in the activities, the researcher did observation used: participant observation is seen or participated in the activities undertaken by the subject observed if it were part of them. By using data observation technique directly by observation, analyzing the behavior of Teachers and Students in Biology Learning process at Ensino Secundaria 4 de Setembro UNAMET Dili.

### **b. Interview Technique**

Interview is one of the instruments to help researchers with respondents directly, in order to know opinions clearly because the interview is very useful and easy for researchers to find out the actual problems through the way of expression of the respondents in order to obtain data required by researchers. According to Margono states that; interviewing techniques is a tool of information gathering by way of direct contact and face to face between information seekers and information sources to obtain the right and objective information.

## **2.5. Qualitative Data Analysis Technique**

### **1. Data reduction**

The data obtained is written in the form of reports or detailed data. Reports prepared on the basis of the data obtained are summarized, selected for the principal, and focused on the essentials.

## 2. Presentation of Data

The data obtained are categorized according to the subject matter and made in the form of matrix so as to facilitate the researcher to see the patterns of relationship one data with other data.

## 3. Conclusion and Verification

The inference activity is a further step of the reduction activity and the presentation of the data. Data that has been reduced and presented systematically will be concluded temporarily.

### III. RESEARCH RESULT

From the results of observations and interviews with informants it can be concluded that in Ensino Secundaria 4 de Setembro UNAMET Dili can be explained as follows:

#### 1. Student behavior on biology learning process

Learning is done by students, not made for students ". Students are the main actors in a learning, so learning process should be their social so that students' ability in terms of cognitive, affective, and psychomotor will be development and changes that optimally.

#### 2. Teacher behavior on biology learning process

Based on the results of observations and interviews with biology subject teachers in Ensino Secundaria 4 de Setembro UNAMET Dili obtained data as follows:

- a. Implementation of the non-sequential learning saw when the teacher immediately checked the homework assigned to students last week at the start of the learning process, and the teacher attended the student attendance after completing the course.
- b. Mastery of basic teacher skill that still low when saw by teacher did not share the attention evenly to student, student look bored because lesson material presented do not use interesting learning media because teacher only used blackboard, use of blackboard not optimal because teacher just wrote title lesson without writing outlines of important subject matter.
- c. Teachers carrying out learning are not in accordance with the necessary learning steps. Teachers do not make Learning Program Plan (Plano de Aula) in implementing learning.

#### 3. Performance of teachers that affect the learning process

Teachers at Ensino Secundaria 4 de setembro UNAMET Dili still face various problems, such as the lack competition, the guidance does not reflect the needs, the welfare of teachers in general is not adequate. The low quality of education in Ensino Secundaria 4 de Setembro UNAMET Dili because of the low quality of graduates as a result of the low ability of students to absorb the subject matter taught by the teacher, the lack of perfect character formers reflected in the attitude and life skills possessed by each student, the low motivation of reading, writing, dissatisfaction of the parties concerned with education on the performance and services provided by educators and education personnel. They not yet optimal performance of teachers in Esino Secundaria 4 de setembro UNAMET Dili is due to the teacher performing his duties as a routine activity, lacking creativity. Innovation for relatively closed teachers part of achievement. If any teacher develops his creativity, the teacher tends to be judged to be time-wasting and wasteful.

#### **4. Teacher motivation to improve student's learning achievement**

In communication and attitude changes will always be done in the learning by teachers and students. In a learning teacher and students together become actors for the implementation of learning objectives. The function of each actor in this context is different. Students as the main actors who do the learning while the teacher as a facilitator in learning. Learning takes place more effectively and more meaningfully because students act more actively than teachers so as to better develop their skills (both from cognitive ability and social activities) with the help of teachers as a party that always motivates students to grow. The most important thing that affects achievement is that motivation can mean that as a condition that initiates, guides and maintains one's behavior. Motivation also as a mental drive that mobilizes and directs human behavior including learning behavior.

Based on the observations and interviews, the teachers at Ensino Secundaria 4 de Setembro UNAMET Dili still lack the motivation of the students well in the learning process because the number of learners so the teacher can not reach all the students. Learning method has no relevance to learning characteristic. Not optimal teachers motivate learners to improve learning achievement.

#### **5. Inhibiting and supporting factors in the biology learning process**

In Ensino Secundaria 4 de Setembro UNAMET Dili which is a problem for teachers is the language of all the material presented in Portuguese language as the teacher in presenting the lesson material still difficulties because of the background of the education of the Indonesian language, the teacher does not provide RPP to teach only glued to the manual already provided, the atmosphere of learning that makes students interested when students explore in it. Biology lessons can be explored through experimental methods, such as practicum activities in collaboration or in nature, but in this school there is no laboratory so students can not practice. Each teacher is required to attend special training according to his expertise under INFORDEP. School environments such as teachers, school discipline and discipline, school friends also greatly support student success.

#### **IV. CONCLUSION**

1. Student behavior on biology study at Ensino secundaria 4 de Setembro UNAMET Dili. Students are the main actors in a learning, so the learning process should be their social so that students' ability in terms of cognitive, affective, and psychomotor will experience the development and changes that optimally.
2. Teacher behavior in the biology learning process at Ensino Secundaria 4 de Setembro UNAMET Dili in obtaining the following data: the implementation of non-sequential learning seen at the time the teacher directly examine the homework of the students given last week at the beginning of the learning start, and the teacher absent the presence of students after completing the lesson material, the basic mastery of basic teacher skills that is seen when the teacher does not share the attention evenly to the students, the students look bored because the subject matter is presented do not use interesting learning media because teachers only use the blackboard, the writing is not optimal because the teacher just write the title of the lesson without writing the outline of the important lesson material, the teacher conducting the learning is not in accordance with the necessary learning steps. Teachers do not make RPP (Plano de Aula) in conducting learning.

3. Teacher performance affecting Teacher learning process in Ensino Secundaria 4 de setembro UNAMET Dili to date still face various problems, such as the existence of low competition to high diversity of competition, the guidance has not reflected the needs, the welfare of teachers in general is not adequate. The low quality of education in Ensino Secundaria 4 de Setembro UNAMET Dili because of the low quality of graduates as a result of the low ability of students to absorb the subject matter taught by the teacher, the lack of perfect character formers reflected in the attitude and life skills possessed by each student, the low motivation reading, writing, dissatisfaction of the parties concerned with education on the performance and services provided by educators and education personnel.
4. Teacher motivation to improve student's learning achievement as a mirror teacher gives a picture (self reflection). In a learning teacher and students together become actors for the implementation of learning objectives. Students as the main actors who do the learning while the teacher as a facilitator in learning. The most important thing that affects achievement is that motivation can mean that as a condition that initiates, guides and maintains one's behavior. Motivation also as a mental drive that mobilizes and directs human behavior including learning behavior.
5. Inhibiting and supporting factors in the biology learning process at Ensino Secundaria 4 de Setembro UNAMET Dili which is a problem for teachers is the language of all the materials presented in Portuguese language as teachers in presenting the lesson material is still difficulties because of the background of education of the Indonesian language, the teacher does not provide Learning Program Plan (Plano de Aula) to teach only glued to manuals that have been provided, the atmosphere of learning that makes students interested when students explore in it. Biology lessons can be explored through experimental methods, such as practicum activities in collaboration or in nature, but in this school there is no laboratory so students can not practice. Each teacher is required to attend special training according to his expertise under INFORDEP. School environments such as teachers, school discipline and discipline, school friends also greatly support student success.

### **Bibliography**

- Sugiyono 2011; Mixed Methods; Alfabeta; Bandung.
- Taryono; 2000; Skilled Mastering and Applying Biology Commission of SMU 2A PT. Tigaserangkai; PustakaMandiri
- Ngalimun; Learning Strategies and Models; 2015; AswajaPressindo; Banjarmasin.
- Vienna Sanjaya; Planning and Design of Learning System; 2008; Bandung.
- Suyono and Hariyanto; 2011; Learning and Learning; Youth RosdaKarya; Bandung.
- Nasution; 1982; various approaches in teaching and learning process; PT BumiAksara; Jakarta.
- SofanAmri, and IifKhoimAhmadi; 2010; Creative and Innovative Learning Process In PT Pustakarya Achievement Class; Jakarta.
- Djamarah; 2015; Psychology Learning, Publisher RinikaCipta, Jakarta.
- ZainalAsril; 2015; Micro Teaching; PT Raja GrafindoPersada; Jakarta.

- Sanjaya, Vina. 2006. Learning Strategy: Education Process Oriented Standard. Jakarta: KencanaPrenda Media Group.
- Sukardi; 2013; Educational Research Methods Class Action Implementation and Development: Earth Publisher Aksara.
- Miles and Huberman: 1992; Qualitative Data Analysis; Publisher University of Indonesia, Jakarta.
- Maolani and Cahyana; 2015; Educational Research Methodology: PT. GrafindoPersada, Jakarta.
- Surya Mohamad. 2013. Master's Psychology Concept and Its Application: IKAPI.