CHAPTER III

RESEARCH METHODOLOGY

Research methodology is an important factor in the research which is as a collective term for the structured procedure of conducting research. Since research methodology is as structured procedure then it consist of some elements which support the finding of the research question. The elements below are explained more which consist of the research design, subject of the study, research instrument, data collection procedure, and technique of data analysis.

3.1 Research Design

Qualitative research is applied for this study since it is to investigate alternative assessment for writing skill. Furthermore, basic qualitative study is used in this research because this study tries to understand phenomenon which is about the alternative assessment which will be interpreted. As according to Ary, et.al (2010) qualitative research design is as the way to comprehend and interpret human and the social behaviour in the particular setting. In the same line, this research investigates the alternative writing assessment in the Industrial Engineering at UMG. Additionally, according to Harwell (2011) qualitative methods uses to construct a theory from the detail provided by the participant. This study tries to find the types of alternative assessment for writing skill and to find the implementation of alternative writing assessment for writing skill in Industrial Engineering at UMG. Furthermore, the goal of this research is not to calculate how many lecturer use alternative assessment strategy in writing skill.

As Ary (2010) described that qualitative assessment result is not a numeric analysis of data but a holistic picture and depth of understanding it is to describe the phenomena happen in some areas. Thus, the result of this research is in the form of the description and the interpretation of some phenomenon which is existed in the Industrial Engineering major.

3.2 Subject of the Study

The subject of this study is the lectures of D1 English language at UMG. The preliminary study was conducted by giving questioners to the lecturers of D1 English Language at UMG which is total 12 lecturers. The questionare is focused on the types of alternative assessment for writing skill. Out of 12 lecturers, there are 10 lecturers who have anwered the questionare.

The questoinares result shows that all 10 lecturers have applied alternative assessment with different way. However, among 10 lecturers, the researcher chooses two lecturers who have high score. It means that they have applied alternative assessment in writing skill more than other lecturers. The two lecturers teach Industrial Engineering which consist of two classes which are K class and L class.

3.3 Research Instrument

There are two main instruments for this study which are observation and interview. The instruments are used to collect the data which related to this study. The first is observation is conducted in the second semester of industrial engineering writing class about the implementation of alternative assessment for

writing in that class and alternative assessment activity in writing class. the

second instrument is interview which is done for knowing unclear data from

observation which can not be seen from it. Furthermore, the researcher acts as

planners, implementers, data collectors, analyser, interpretation of data, up to the

stage of reporting research results.

The observation is companied by video recording. Additionally, there is

observation form to analyze the implementation of alternative assessment in

writing. The observation form is adapted from Ercilia (2016). It consist of some

types of alternative assessment which are portfolio, writing sample, conference,

summarizing, reflective writing, teacher-feedback, pair-feedback, and self-

assessment. Those types be compost some charachteristics. (see in Appendix A)

The next instrument is interview with the lecturer. It is companied by audio

recording. The interview is about the information which can not be seen from

observation. The inteview is semi-structured interview which lets the researcher

explorers more related to implementation of alternative assessment. (see in

Appendix C)

3.4 Data Collection Procedures

Several techniques will be used to gather data for this research. Those

techniques are observation and interview which are applied in order to gain

information about the alternative assessment for writing skill implemented by the

lecturer in second semester of Industrial Engineering. As stated by Ary, et.al

(2010) that there are three most common data collection method which are

observation, interview, and document or artifice analysis. In addition, data collection can be stopped when the data have answer all the research problem in this study. The following is the procedure for collecting data:

3.4.1 Observation

The first data collection is done by observation which is in the industrial engineering class at UMG. The total meeting in industrial class for writing skill is 15 meetings but the meeting depends on the students' need which can be less than 15 meetings. Furthermore for this research ,the observation will be around six times in two classes of industrial engineering which are K class and L class. Each class consist of three meetings.

The observation is focus on the lecturers' teaching which implement alternative assessment for writing skill. As Ary, et. Al (2010) stated that qualitative study focused on describing the setting, behaviour, and interaction. Furthermore, the observation will use video recording to record the implementation of alternative assessment in the classroom.

3.4.2 Procedures for Conducting Interview

The interview will be conducted after the observation finished in order to confirm the result of observation or the unsure activity during apply alternative assessment. Based on Ary, et. Al (2010) interview is used to collect data about opinions, beliefs, and feelings from people about situations in their own words.

Audio recording is companied as a tool to prevent losing any specific information. The researcher will also take a note during the interview to write some information which can be used to give for next questions

In addition, semi-structured interview is used. Before conducting the interview, the researcher listes some questions. Then, during the interview, the researcher askes detail questions which related to the previous question. Those questions have relation with the implementation of alternative assessment which have been done by the lecturers.

3.5 Technique of Data Analysis

The next step of this study is data analysis which the goal is to analyse the collected data. After finishing in collecting data, the researcher immediately analyse the data because it can be time consuming since the qualitative research has many data. This research analyses data by using three process which are reduction, displaying, and drawing conclusion. According to Miles and Huberman (1994) described that data analysis consist three processes which are data reduction, data display, and drawing conclusion.
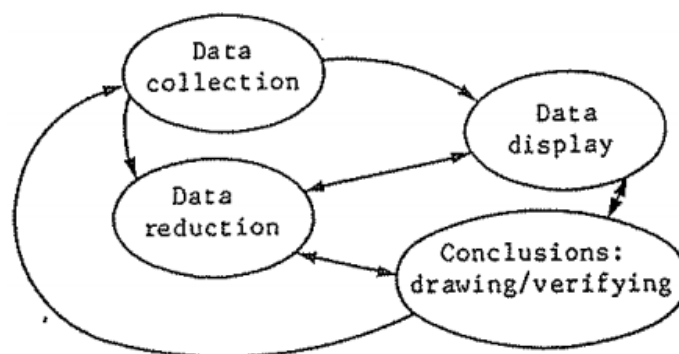

Figure 1. Components of Data Analysis: Interactive Model
by Miles and Hubeman (1994)

3.5.1 Data Reduction

This process allows the researcher to reduce the data collection which does not have any connection with the implementation of alternative assessment. The reduction is done in order to focus with the issue have raised in this study. According to Miles and Huberman (1994) stated that data reduction relate with the process of simplifying, selecting, abstracting the data from written field note or transcription. While, the data reduction comes from observation transcription and recording in the writing class of industrial engineering at UMG. Then, the data discards the activity and information which are unimportant with the focus of this study. Furthermore, the appropriate or important activity and information related to the implementation of alternative assessment is collected and kept.

3.5.2 Data Display

After reducing the data, the researcher displays important data and information with the focus of the study. The researcher displays data which is appropriate with the types of alternative assessment which have been applied and implementation of alternative assessment. Data display for this study is from the transcription and narration which are made by the researcher based on the writing class observation. Miles and Huberman (1994) said that data display is part of data analysis which is a process deciding related data should be entered in the cell or which related data should be display. Additionally, data display in this study is not only from writing class observation but also from interview with the lecturers of industrial engineering in second semester at UMG.

3.5.3 Drawing Conclusion

The last process in data analysis is drawing conclusion which analyses the data in order to obtain conclusion for the study. The researcher analyses from the observation recording which has been transcribed. Additionally, interview which has been transcribed is the second analysis.

The purpose of this drawing conclusion is to give the clear the virtualization which type of alternative assessment activity implemented and how the alternative assessment implemented for writing in second semester of industrial engineering at UMG. The conclusion of the result interview with the lecturer give the clearest to understand how the alterative assessment apply for writing in industrial engineering. As Miles and Huberman (1994) told that conclusion are confirmed as the process of analysis.