CHAPTER III

RESEARCH METHODS

3.1 Research Method

Research methods that can be carried out are by measuring the room, collecting data through a monitoring system, and conducting a questionnaire survey on the occupants of classes 1509 and 1510 in building D, Multimedia Nusantara University. Data obtained from the results of direct measurement and monitoring systems will be compared with the questionnaire data obtained. Compare whether the temperature and humidity in the room are comfortable or not. Questionnaire data will be used to determine the results of measuring room thermal comfort in the class for room occupants.

3.2 Research Stages

This research stage involves selecting the room where the measurements will be carried out and the approach. The next step is to look for opportunities for this research to be carried out. The research work will be depicted in a flow chart in Figure 3.0.1. Among them:

1) This research is in contact with the monitoring system section in the room to collaborate with the research team and provide information about the current research.

2) Create a questionnaire survey and distribute it to the occupants of classrooms 1509 and 1510, building D, Multimedia Nusantara University.

3) Take direct measurements in the room to find out temperature and humidity data.

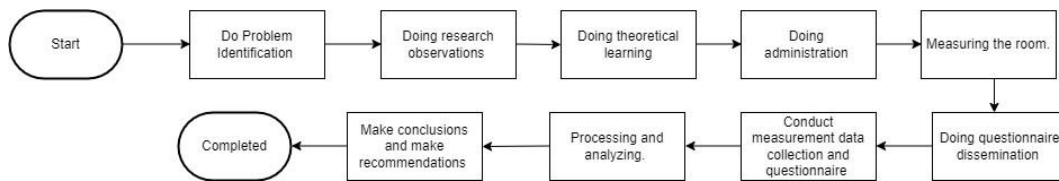4) Compare questionnaire data using the PMV model and carry out analysis.

Figure 3.0.1 The research work will be depicted in a flow chart in

3.3 Data Collection Technique

Data collection techniques using qualitative and quantitative data methods will be used for this research. The data used is primary research carried out by measuring and monitoring temperature and humidity in classrooms 1509 and 1510, building D, Multimedia Nusantara University. The questionnaire data will be used and the data collection period is February to May 2024.

3.4 Data Analysis Technique

The data analysis technique in this research uses PMV model calculations which will be used to analyze questionnaire data to find out whether classrooms 1509 and 1510, Building D, Multimedia Nusantara University feel comfortable or not in the classroom. PMV analysis will be compared with direct measurement and monitoring data systems, to determine the temperature and humidity levels in the room that are comfortable enough and in accordance with standards.