

## **CHAPTER III**

### **RESEARCH METHOD**

#### **3.1. RESEARCH METHOD**

This study was conducted by doing measurement, data collecting through a monitoring system, and survey using questionnaire for people using Student Lounge 2. Data collected from measurement will be compared with the data collected from the monitoring system. The data from the measurement and monitoring system will be compared with the data form the questionnaire to determine are the temperature and humidity indoor are within the comfort zone of the respondent. The data form the questioner will also be used to determine if the room is comfortable enough for the occupant of the room.

#### **3.2. RESEARCH STAGES**

The planning of this study involves choosing which room will be studied and to approach it. The next step is to determine how the study will be conducted. The first step of this study is to contact the monitoring system team to notify them about the study and ask them for their cooperation. Hereinafter to make the questioner for the user of the Student Lounge 2 and then distribute it. The measurement of the Student Lounge two will be done alongside the distribution of the questioner. After all the data are collected, it will be compared. The PMV model will be used for analyzing the questioner data. The Figure 3.1. showed the research step or flow from the beginning until the end of the research.

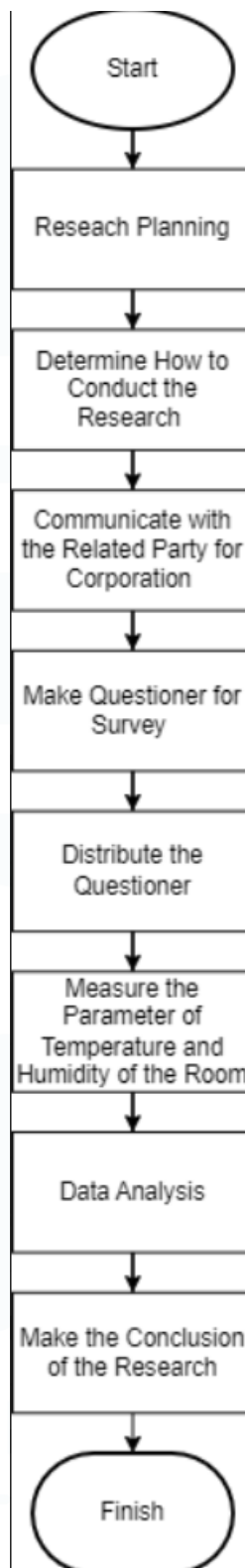


Figure 3.1. Research's Flowchart

### 3.3. DATA COLLECTING TECHNIQUE

This research used qualitative and quantitative data. The data was primarily collected from the measurement using the environment meter and monitoring system of the temperature and humidity of the room. Questionnaires were used to collect data from the occupant. The period of data accumulation is from February until May 2024

### 3.4. DATA ANALYSIS TECHNIQUE

The PMV model was used for analyzing the questioner data to determine if the occupants of Student Lounge 2 are comfortable or not. Afterward the result of PMV analysis compared to the data from the measurement and monitoring system to determine if the temperature and humidity of the room are comfortable enough.

