

CHAPTER 3

RESEARCH METHODOLOGY

1. Literature study
Analyze problems and solution for water quality monitoring system in Kaligarang River. Collect 5 literatures (journals and books) about IoT system, sensors and database.
2. Planning
Arrange schedule for field observation and plan the budget for the project.
The Schedule of activities of this research are as follow:

NO	ACTIVITIES	Month				
		March	April	May	June	July
1.	Literature Study					
2.	Planning					
3.	Observation					
4.	System Trial					
5.	Evaluation					
6.	Report Writing					

Table 3.1: Table Planning

3. Observation
Field observation to understand the characteristics of Kaligarang river and to determine possible location to implement the solutions. Collecting sample of river water at 5 different locations where the sensors will be placed.
4. System Trial
Make the computer program, sensor trial on maquette model.

5. Evaluation

Collect and analyze data from system trial. Data will be retrieved from module sensor and transferred via wifi.

6. Report Writing

Write scientific report on the project, generate conclusions and give suggestions for next research.

