CHAPTER 3

METHODOLOGY

3.1 Introduction

This chapter describes the methodology used to conduct this study. Methodology is the study of a systematic process to identify and summarize the set of objectives and methods to edit, compile, and calculate to find a solution. Besides, this objective seeks to create a mobile farming system and each project is to develop, including a discussion of the methodology using a methodology which is used to project the solution tree. This methodology is a process, standards and guidelines to be followed clearly involved in producing a product or software. The present study is composed of compatibility could be in a specified time.

3.2 Project Methodology

In network engineering and project management methodology is a set of practices which can be carried over to create the software. The system mainly consists of two parts: the mobile station and the micro control unit. Portable system is responsible for delivering and direct and control commands to devices and sensors and to get feedback from the system.

The next unit, a microcontroller unit, it is to control the device and process information obtained from the device as well as from the mobile station. Unit microcontroller is the brain of the control system and process information to and from various other units of
All methods in this field are collations device all these about disciplines.

The methodology is very important when developing specific software. It is an indicator that can affect the overall progress of the project. A use of appropriate methodology can guide the developer through the entire work to meet the needs of user. There are many different types of methodologies that have been created by researchers, such as the Rapid Application Development (RAD), it is the software development life circle (SDLC), waterfall model, structured systems analysis and design method (SSADM) and others.

Based on what I have reviewed, I feel RAD is the most appropriate methodology used in the project is a portable agricultural system. This methodology was chosen because it has a lot of my success to the project. This project will probably take quite some time to be completed successfully, which may take 4-6 months to develop. To develop, it carries a 7 phases this is project planning, project analysis, project design, project development build, project test, project implementation and project maintenance deploy.

Figure 3.1 show about RAD process traditional development
3.3 System Planning

The System Planning phase starts from defining the problem and scope of the project. This activity is very important in providing the planning phase. Besides, the next step in this phase is to create the project schedule so that the project can be carried out properly. A detailed schedule use with task and the activity of mobile farming system is show in Gantt chart. The Gantt chart will be to apply in Microsoft project and it will be referred through the work and the time it will take. Besides, it is to facilitate and fulfill customer needs fully. The steps taken are;

i. Using a string of technological facilities or research via the internet to get more information about the system to be developed

ii. Use methods of communicating with others to get more ideas and new methods of experienced people as supervisors, lecturers, engineers and others to develop the system

3.4 System Analysis

Definition of requirements is the most important part of this project. Need an explanation of what the system should do. In this case, the software`s overall structure and degree defined and functional and non-functional requirements, what of the technology, the structural design of all the measured data in this case.

The development of a tool using this mobile device will be the beginning of the project by the test plan. Analysis required for this chapter will help to ensure that consumers understand the system requirements either the user or the system side. In this case, the problem must solve the defined project. The latest situation is analyzed, and the goal of this project should be decided.