CHAPTER I
INTRODUCTION

1.1 Background

In the manufacture of exam schedule, many user difficulties in the manufacturing process. Much to the manual and some were put on the program but still difficult. Problems in the construction exam schedule because each semester students take an exam based on the courses they choose. Because of the difference in retrieval courses each student, then in making a schedule of exams error.

A solution that can be done by applying algorithms Welch-Powell and one of the objects is implemented in PHP programming. Welch-Powell algorithm which effectively used in staining graph, such as scheduling, as well as having a low level algorithms. While using programming PHP objects in applying algorithms might still be difficult.

But using PHP programming object allows an application to retrieve the associated data in the process of making data students scheduled exams, courses and courses data retrieval of the data.

1.2 Scope

Problems in the making of this program to determine the numerical values indicating the minimum amount of chromatic schedule examinations must be carried out without causing the appearance of two or more concurrent schedules of course followed by the student.

Then specify the names of the courses that might have the same exam schedules so that it can be processed in order not to damage occurred in the making of the program.

Later Welch-Powell algorithm implements the PHP language for Object creation objects automatically as a system must be able to process all the data that will be used to direct data gave rise to schedule an exam.

1.3 Objective

The purpose of make the program exam schedule automatic because my project end, implement the algorithm GraphColoring and algorithm Welch-Powell and allow a user to create the schedule the test automatically and no hassles in making the exam schedule manually .