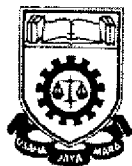# INTRODUCTION TO ELECTRONIC COMPONENTS IN
WEB SITE FOR
ELECTRICAL ENGINEERING LABORATORY

Thesis is presented to fulfill the requirement

of Bachelor Engineering (hons.) Electrical of

MARA Institute of Technology

NAZRULAZHAR B. HJ. BAHAMAN

Faculty of Electrical Engineering
MARA Institute of Technology
40450 Shah Alam
Selangor
MALAYSIA

APRIL 1998

ACKNOWLEDGMENT

In the name of ALLAH, the Beneficent and Merciful who has given me the strength and ability to complete this project and thesis.

I would like to take this opportunity to express my sincere gratitude and appreciation to my project supervisor, Pn Habibah Hashim whose patience, inspiration, ideas, suggestion and constant guidance have helped me to successfully complete the project and this thesis. My appreciation also to all the Electrical Computer Laboratory technicians for their cooperation.

May ALLAH be with us in good and bad time. INSYAALLAH.

ABSTRACT

This project explores the development of a web application using Java Language, Java Script and HTML (Hyper Text Markup Language). The web application is a Computer Aided Learning (CAL) package that attempts to introduce students to electronic components.

On running the application, students (users) can learn from on-line notes or choose to learn from the other features of the application which includes computation of resistance value, decimal number conversion and animated electronic components operation. By specifying inputs to various types of gates, an animated presentation of how the gates function can be witnessed. They can also attempt a simple quiz at the end of the presentation. The comments and suggestion site give a chance to reply back any question in on line system.

A web page is set up for this application and will be linked from the Electrical Engineering Department (EED) Homepage.

TABLE OF CONTENTS   PAGE

CHAPTER 1

1.0 INTRODUCTION

1.1 General

The project is concerned with image animation created using JAVA language. In 1831 a Frenchman named Joseph Antoine Plateau was able to create the illusion of movement by means of a machine which he called a *phenakistoscope.*

The device consisted of a disk with series of progressive drawings and windows. When the disk was rotated the viewer would see the drawings in rapid sequence, which created an illusion of movement. But now in technology period, its concept is still use in animation builder's software. Its concept also can use in JAVA programming language to create the animation image [3].

JAVA is a programming language that was developed by SUN Microsystems under the guidance of Net luminaries James Gosling and Bill Joy, is designed to be a machine independent programming language that is both save enough to traverse networks and powerful enough to replace native executable code. JAVA addresses the issues raised here and may help