FACULTY OF ELECTRICAL ENGINEERING

MARA UNIVERSITY OF TECHNOLOGY

FINAL REPORT DIPLOMA   (PROJECT KEU 380)

PROJECT TITLE:

ELECTRONIC DICE

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2 0 SEP 2001

ABSTRACT.

The popularity of the electronic dice will be most useful in these days of electronic game and it is more enjoyable to play monopoly.

It is used to generate random numbers between one to six every time the button is pressed. Electronic dice uses many component such as IC's, resistors , capacitors, rectifier anode display and switches.

The function of this module is to take the 3- bit binary output from the clock and counter module and convert it into a seven bit signal that will correctly drive the LED display with the six number that make up the 'Electronic Dice'.

This project uses common anode display where all of the outputs are common anode connected to the supply.

ACKNOWLEDGEMENTS

First of all , our sincerest appreciation must be extended to the instructor who have read this project paper and sent in comments, correction, and suggestion.

Second, we also would like to convey to our supervisor, Miss Taniza Tajuddin . She has contributed immensely towards the completion of this manuscript. She also had been encouraged advised and guides us to do accomplishing to full filling and requirement in this course

Third, we would like to express our gratitude to our coordinator of engineering electrical division, Mr. Murad for her review feedback of the manuscript.

We also like to thank to our parents that give a supported moral and budget, thank you very much and may ALLAH bless you.

Thanks, one more again.

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1.0 <u>INTRODUCTION</u>

The intention of this project was to design a build a logic decoder circuit for the "Electronic Dice" using only NOT and NOR gates.

This project using may component such as semiconductor, resistors, capacitors, and miscellaneous. In this report we would like to explain in detail all of the components. We would to explain about two pages general IC, it is decade counter and BCD –to– seven segment.

We also explain in detail about resistor, capacitor and diode. It includes the way to use it, the colors and the specific value to use