

H. T. I.
ELECTRICAL ENGINEERING
COURSE

DIPLOMA PROJECT

DEVELOPMENT OF A VARIABLE
A. C. (0.5 - 25V / 1A) POWER SUPPLY

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SUMMARY

" DEVELOPMENT, CONSTRUCTION AND TESTING OF A VARIABLE
A.C. POWER SUPPLY ".

By

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The objectives of this project are:

1. Design, Construct, Test and Calibrate a variable A.C. Supply.
2. Output voltage variation [0.5 - 25V / 1A] A.C., 50Hz.

The whole work was carried out successfully and in a way that all the objectives have been satisfied.

First the design was studied and the proper circuit was found in order to deal with the A.C. power supply specifications.

As a second step the printed circuit board (p.c.b.) was constructed. For constructing the p.c.b. layout the use of the "EASY - PC" program took place. The components used were found from the RS catalogues.

After the construction the testing was followed and then the output voltage monitoring to satisfy the certain limits.

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