

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

GREENHOUSE CONTROLLER

E/835

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OBJECTIVES

The greenhouse controller project has the following objectives.

1) To control the *air and soil temperature* in a greenhouse. The desirable temperature in greenhouses varies according with the plants in the greenhouse. So we must have a variable set point temperature so that the project can be used in any greenhouse. The mechanical parts which control the temperature also varies from greenhouse to greenhouse so these parts will be replaced by leds which will show the comparison of the real temperature and the desirable temperature.

2) To control the *humidity and moisture* in a greenhouse. The desirable humidity and moisture also varies in accordance with the plants. So again we must have a variable set point.

The project is made for academic purposes so one circuit will be constructed. The sensor used in each case will be changed and we will have calibration for each sensor.

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