



**NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY  
ELECTRICAL DEPARTMENT**



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Internal Guide:- Asst. Prof Mayur Patel**

**Project Title:- AC MOTOR PROTECTION USING DIGITAL RELAY AND GSM INTERFACE**

**Abstract:-**

This project is based on “Generator Protection”.The whole project includes different Generator Protection Schemes & also Protective relays used in generator protection. As Generator is very critical and costly equipment used in power plant. Protection of Turbo Generator is the most complex. Generator protection is also required for power system stability. Generator protection is not only protection of only generator but it also protects turbine and other auxiliary system of power plant. Simulation of faults will be there for over current, differential & turbine-to Boiler trip protection using PROTUS software. One also practically implementation in this project is the program and model for instantaneous relay for Over current, differential & turbine-to-Boiler trip protection Relay using ATMEGA32 microcontroller chip.

**Major Hardware components used:-**

Microcontroller , Potentiometer, Power supply

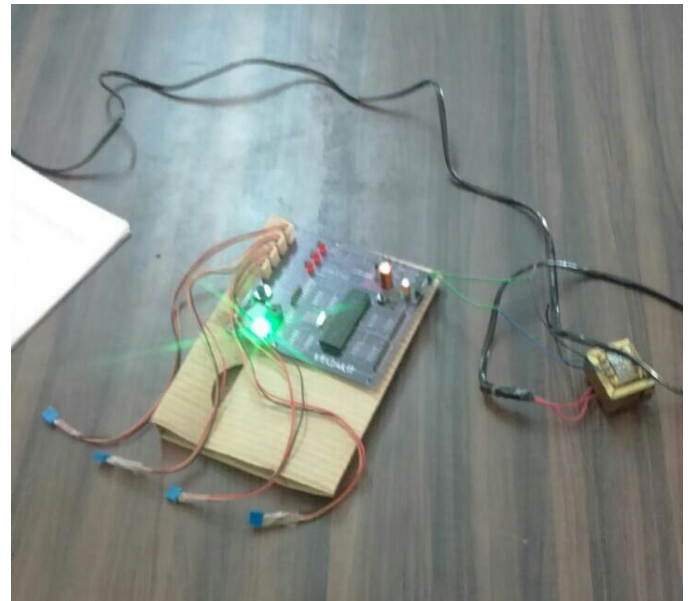
**Software used:- KEIL**

**Project Application:-**

- (1) Protection of ac Generator & transformer
- (2) Power generation unit
- (3) Mall & buildings

**Approx. Project Cost:- 12000**

**Project Photo:-**



**Block /circuit Diagram:-**

