



## NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY

(Department of Electronics & Communication)

Hetali Dholakiya(110340111057), Vaibhavi Mahale(110340111060)

Contact No.=9727840719,8306188976

Internal Guide:-Malhar Chauhan

,External Guide :-

### Project Title:-Robotic Cable Inspection System

**Abstract:-** Our project is based on the inspection and monitoring of cable wires. The design includes controller which is used for controlling purpose. The robot is also used for detecting faults in cable. This robot presents a design of a low-cost, lightweight powerline inspection robot. This robot presents the initial phase of the development in which a robot is built for travelling on wire. The robot that can navigate aerial power transmission lines completely unattended by human operator. Its ultimate purpose is to automate inspection of power transmission lines. It navigates a power transmission line between two strain towers.

**Block /circuit Diagram:-**

**Major Hardware components used:-**

Microcontroller, Motors, Sensors.

**Software used:-** Proteus, Orcade

**Project Application:-**

- (1) Used to detect faults in cables.
- (2) Used in transmission line.
- (3) Temporary repairing is done.
- (4) Used in power industries.

**Approx. Project Cost:-3000**

**Project Photo:-**

