



NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY

(Department of Electronics & Communication)

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Project Title:-

ARTIFICIAL ROBO ARM FOR THE PHYSICALLY DISABLED PERSON.

Abstract:-

The use of artificial robo arm with high navigational intelligence is one of the great step towards integration of disabled people. Our idea is to make a robo arm which works with the help of Gyroscope and EMG for disable person to fulfill the duty to assist in the daily activities.

In this project we have used DC gear motor that will operated through gyroscope. The only goal of the project is to integrate into the society and improve the quality of life of person with disabilities.

“The future belongs to those who believe in the beauty of their dreams.”

Our hypothesis is that to make a robo arm for disabled persons that is controlled through the movement of the muscle which is transmitted through the sensor.

Major Hardware components used:-

Gripper, EMG circuit, 3 Electrodes, Fitting belt, Battery, Gyroscope, Arduino, DC gear motor.

Software used:-

Proteus Simulation
Orcad Designing

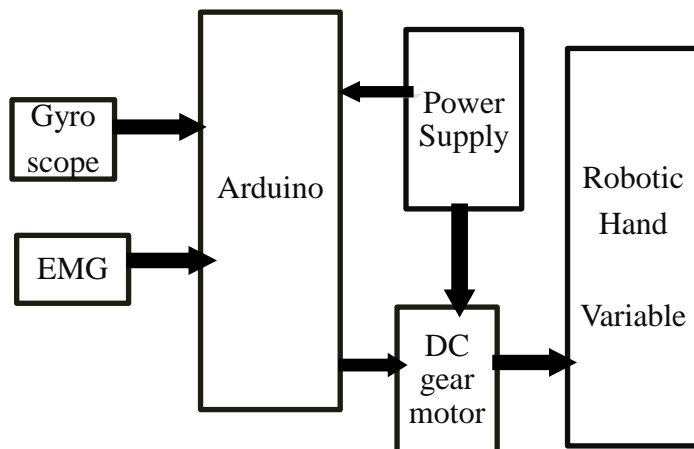
Project Application:-

- (1) Patients who suffers from illness.
- (2) People with paralysis stroke and physically handicapped.
- (3) Persons who don't have much energy in their hands.
- (4) Person can lift maximum load.

Approx. Project Cost:-

Between Rs.5000 to Rs. 8000

Block /circuit Diagram:



Project Photo:-

