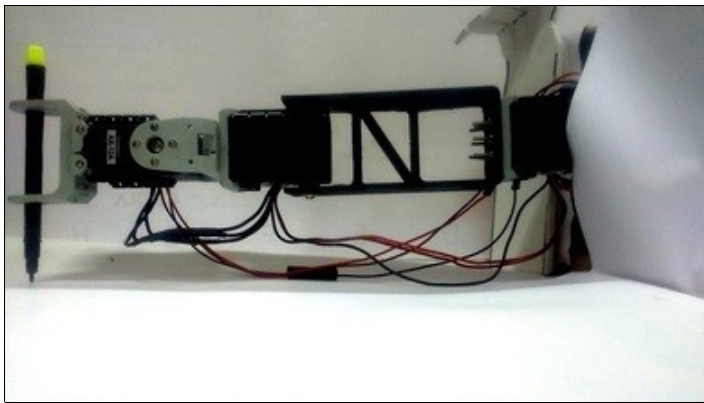




Tech Times

VISVESWARAYA NATIONAL INSTITUTE OF TECHNOLOGY

Robotic Arm



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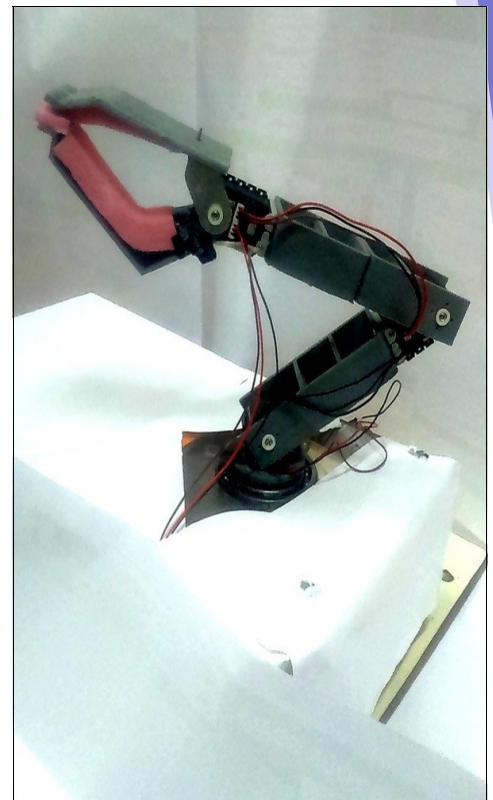
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Ever imagined a hand which can write your name !! And which can grab things like we humans do!! The Robotic Arm is all what you need.

Robotic Arm is a 3 DOF arm, which can write any input given by the user . The input is given via key-board .It is a type of mechanical arm, programmed, with similar functions to a human arm for writing and grabbing. The links of the manipulator are connected by joints allowing rotational motion which are in kinematic chain .

The increasing demand to accuracy and precision in the current world has uplifted the development of industrial robotic arms. Most of the manufacturing operations like welding , material handling, thermal spraying , etc. are done by industrial robots .Thus the idea of developing a grabbing robotic arm gained root which could further be extended to assist in various industrial operations.



In this project , the robotic arm is capable of writing the alphabets that are entered in GUI by the user. Font size of the letters can be varied according to need.

The gripping arm demonstrates the grabbing abilities by picking objects from any location and placing them to some other location. It smoothly navigates through its defined workspace.

This project was accomplished under the valuable guidance of our seniors.