THAPAR INSTITUTE
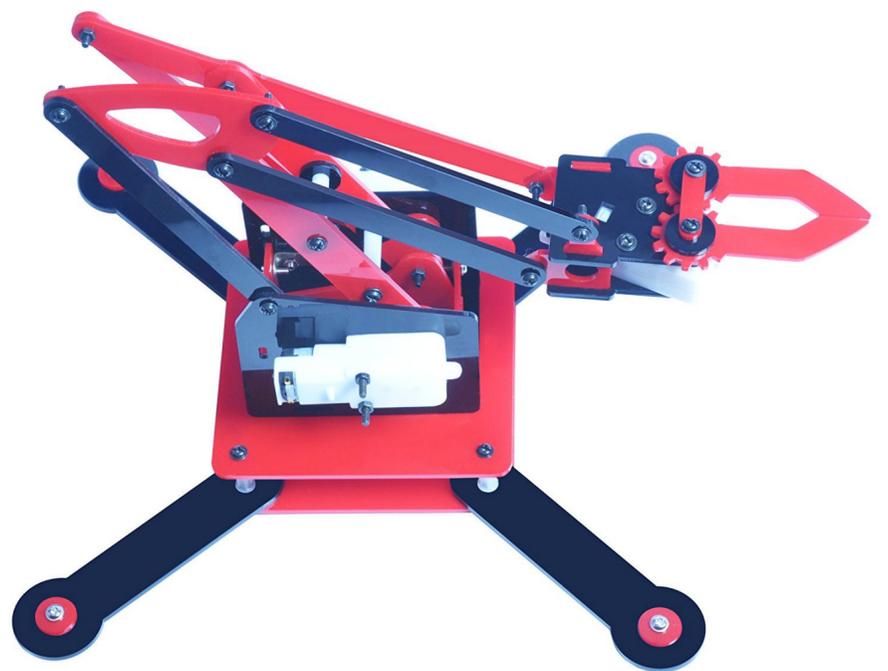OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

ROBOTIC ARM

Features:

- **Compatible with DPDT switches for manual control.**
- **Compatible with Arduino or other IoT board.**
- **Use motor driver, Arduino, Bluetooth/Wi-Fi module for wireless control from mobile.**

Learning Outcomes:

- **Proficiency in arduino programming.**
- **Basics of robotics like controlling motion of DC motor.**
- **Solve the forward kinematics of any serial-link robot arm (i.e. compute the hand position and orientation as a function of robot joint angles).**

Hardware Specifications:

- **4 DC motors**
- **Aurduino UNO Board**
- **L293D Motor Driver/Server Shield for Arduino**
- **Breadboard**
- **9V battery**
- **Connecting wires**

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