

B67
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-

590 018



**A MICRO PROJECT REPORT ON
“GESTURE CONTROLLED ROBOTIC ARM”**

Submitted By,

Ashwini	4AL20IS007
Keerthi R	4AL20CS060
Rasi K S	4AL20CS114
Sakshath Jain	4AL20EC044

Under the Guidance of

Dr. Jayarama A
Department of Physics



DEPARTMENT OF BASIC SCIENCES
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA

2020-2021

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOODBIDRI D.K. -574225

KARNATAKA



DEPARTMENT OF BASIC SCIENCES

CERTIFICATE

This is to certify that the Micro-Project entitled "GESTURE CONTROLLED ROBOTIC ARM" has been Successfully Completed by

Ashwini	4AL20IS007
Keerthi R	4AL20CS060
Rasi K S	4AL20CS114
Sakshath Jain	4AL20EC044

The bonafide students of Department of Basic Sciences, Alva's Institute of Engineering and Technology, affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI, during the academic year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

Dr. Jayarama A
Mini Project Guide

Dr. Ramaprasad A.T,

HOD Physics
H. O. D.

Dept. Of Physics
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

ABSTRACT

In this micro-project we developed an trainable remotely controlled robotic arm using DC motors. we prepared robotic arm which will perform primary pick and place operations and we can also save the movements of the arm and repeat the recorded actions without any error corrections. This arm has an 360 degrees of actions . The robotic arm is mounted on a base that allows it to perform different coordinates. we used Arduino Mega 2560 for controlling functionalities of the robot. we prepared this robot in two stages. In the first stage, the robot will be controlled with the help of potentiometer and in the second stage of development, remote functionality was added. we prepared this arm with the functionality by which the arm is controlled by the Bluetooth also. so it will make our daily life easy, better and simple.