

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Jnana Sangama, Belagavi – 590018



**Major Project Report**

on

**“IMPLEMENTATION OF OBJECT DETECTION AND  
RECOGNITION ON A ROBOTIC ARM USING RASPBERRY PI”**

*submitted in partial fulfillment of the requirement for the award of the degree of*

**BACHELOR OF ENGINEERING**

in

**ELECTRONICS AND COMMUNICATION ENGINEERING**

by

**Ms. SPOORTHI**

**4JK20EC037**

**Ms. SOUNDARYA B S**

**4JK20EC036**

**Mr. DHANUSH V KOTIAN**

**4JK20EC014**

**Ms. GEETHA D P**

**4JK20EC016**

**Under the Guidance of**

**Mrs. SAHANA K ADYANTHAYA**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
A J INSTITUTE OF ENGINEERING & TECHNOLOGY**

**A Unit of Laxmi Memorial Education Trust ®**

**(Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi, Recognized by Govt. of Karnataka)**

**Accredited by NBA (BE: CV, CSE, ECE, ISE, ME)**

**Kottara Chowki, Mangaluru-575006, Karnataka**

**2023-2024**

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



### CERTIFICATE

Certified that the major project work entitled "IMPLEMENTATION OF OBJECT DETECTION AND RECOGNITION ON A ROBOTIC ARM USING RASPBERRY PI" carried out by Ms. SPOORTHI (4JK20EC037), Ms. SOUNDARYA B S(4JK20EC036), Mr. DHANUSH V KOTIAN(4JK20EC014), Ms. GEETHA D P(4JK20EC016) the Bonafide students of A J Institute of Engineering and Technology in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report.

The project report has been approved as it satisfies the academic requirements in respect of major project work prescribed for the said Degree.

Signature of the Guide

Mrs. Sahana K Adyanthaya

Signature of the HOD

Dr. Kiran Kumar V G

Signature of the Principal

Dr. Shantharama Rai C

External Viva:

Name of the Examiners

1. Chandra Singh
2. P.K. Shetty

Signature with Date

Signature: 29/05/24  
Signature: 29/05/24



H.O.D. - Electronics & Commn. Engineering  
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