VISVESVARAYATECHNOLOGICALUNIVERSITY

JnanaSangama,Belagavi,Karnataka-590018

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A

PROJECT REPORT ON

"ROBOTIC ARM USING ARDUINO"

Submitted impartial fulfillment of the requirements for the award of the Degree of

Bachelor of Engineering

in

Mechanical Engineering

Submitted By

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2021-22

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Certificate

Certified that the Project Work entitled **"ROBOTIC ARM USING ARDUINO"** is a bonafide work carried out by **Mr.SRIHARI REDDY H V (1SV19ME013)** in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-2022. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Project Report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
(Mr B H Vasudevamurthy)	(Mr B H Vasudevamurthy)	(Dr.Narendra Vishwanath)

SI. NO.	Name of the Examiners	Signature with Date
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ABSTRACT

This proposed work is an overview of how we can make use of servo motor to make joints of a robotic arm and control it using potentiometer. Arduino UNO board is programmed to control the servo motors and arduino's analog input is given to potentiometer. This modelling resembles like a robotic crane or we can convert it into robotic crane using some tweaks. Robotic arm is one of the major projects in today automation industries. Robotic arm is part of the mechatronic industry today's fast growing industry. This project is apick and place robotic arm. On large scale it can be used as in environment, which is either hazardous (e.g. radiation) or not accessible. As the size of the robots scale down, the physics that governs the mode of operation, power delivery, and control change dramatically, restricting how these devices operate This also include it's characteristics like its extension, positioning, orientation, tools and object it can carry. This paper is on how we can make robotic arm with non useful materials and its application for small purposes. This paper also says about its advantages, disadvantages, methodology. I conclude this paper by future enhancement.

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