VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590018

Mini Project Report on

"ASSISTIVE DEVICES FOR HEARING IMPAIRED"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the following students,

ANCHITHA   **4AL21EC007**

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has submitted Project synopsis on **"ASSISTIVE DEVICES FOR HEARING IMPAIRED"** for VI Semester B.E. in Electronics & Communication Engineering during the academic year 2023-24. The mini project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Mini Project Guide   8/8/24   Mini Project Coordinator   HOD

Dr.Ganesh K   **Dr. Ganesh V N**   **Dr.Dattathreya**

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ABSTRACT

There are so many disabilities faced by the people and one of them is deafness.For the silent community, sign language is the only means of communication.Sign language is unfamiliar to a large number of people. This project aims to help the deaf community during emergency situations to ask for the help.We address the issue by putting into practice a methodology that will aid in closing the communication gap that exists between the deaf and the general public.As a result, we propose a speech aid that will enable silent persons to communicate with non-mute individuals by using hand gestures.Flex sensors, whose resistance value varies in response to the user's chosen gestures, are integrated into speaking systems. The Arduino UNO microprocessor processes the gesture data, and the appropriate text is shown in the output. Here, a Bluetooth module is also used and this sends the message to the mobile phones.