VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"DESIGN AND IMPLEMENTATION OF COVID19 SAFETY AMALGAMATION"

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 & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225.

2020-2021

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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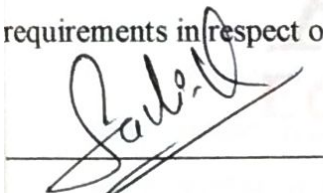## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "DESIGN AND IMPLEMENTATION OF COVID19 SAFETY AMALGAMATION" *is a bona fide work carried out by*

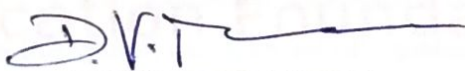|	
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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2020–2021. It is certified that all corrections/suggestions 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 Bachelor of Engineering Degree.
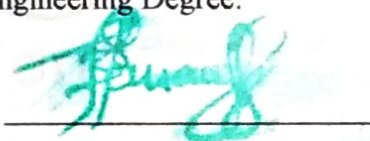
Signature of the Guide	**Signature of the H.O.D**	**Signature of the Principal**
Mr. Sachin K	Dr. D V Manjunatha	Dr. Peter Fernandes
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EXTERNAL VIVA

Name of the Examiners   Signature with date

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ABSTRACT

Now there are lot of shops, offices and institutions are reopening again after the corona lockdown, many businesses are faced with the necessity to supply the most effective possible protection for his or her staff and customers. Face masks and temperature of the person checks play a crucial part within the protection effort. While this is often already done routinely used in a large scale at airports and railway stations, many businesses and institutions are struggling to fulfill the challenge. Mask monitoring often requires additional staff resources. At an equivalent time, temperature of the person checks by staff accompanies certain risks in terms of hygiene and data privacy. Therefore, the usage of face masks and sanitizers has shown positive results when it involves disease spread reduction. Many protection and safety measures were taken by governments so as to scale back the disease spread, like obligatory indoor mask wearing, social distancing, quarantine, self-isolation, limiting citizens movement within country boarders and abroad, often alongside prohibition and cancellation of giant public events and gatherings. From workplace behavior to social relations, sport and entertainment, corona virus disease poses many changes to our everyday routine, habits and activities.

Proposed system is a fully automated temperature scanner and face mask detection entry provider system. In this system we make use of a contactless temperature scanner and a mask monitor. A person won't be provided entry without temperature and mask scan. Only person having both conditions is allowed inside. The system uses temperature sensor and camera connected with a raspberry pi system that regulates the entire operation. If an individual is flagged by system for top temperature or no Mask the system gives buzzer alert and bars the person from entry and also, the face mask worn and temperature of person is normal then sanitizer is sprayed.