VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018, KARNATAKA

Mini Project Report(18EEMP68) on

"PULSE RATE MONITORING USING ARDUINO"

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

BACHELOR OF ENGINEERING
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

MANJULA K.T   (1SV19EE005)
<u>Under the Guidance of:</u>

Mr. G H RAVIKUMAR B.E., M Tech, MISTE

HOD Dept. of EEE SIET,
Tumakuru.

SHRIDEVI
EDUCATION

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY Sira
Road, Tumakuru – 572106, Karnataka.
(Affiliated to VTU Belagavi, Approved by AICTE New Delhi, an ISO 9001:2015 Certified
Institution)
2021-2022

PRINCIPAL
SIET., TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
[Affiliated to VTU, Belagavi]
Sira Road, NH-4, Maralenahalli, Tumakuru, Karnataka 572106

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SHRIDEVI
EDUCATION

CERTIFICATE

Certified that the Report of mini project work entitled "PULSE RATE MONITORING USING ARDUINO" carried out by ASHWINI (1SV19EE002), MANJULAK.T (1SV19EE005) a bonafide students of Shridevi Institute of Engineering and Technology, Tumakuru-572106, has successfully carried out the mini project work in partial fulfillment for the award of Bachelor of Engineering in Electrical & Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. All the corrections/suggestions indicated for internal assessments have been incorporated in the report. The mini project report has been approved as it satisfies the academic requirements in respect of Project work prescribed or Bachelor of Engineering Degree.

signature	*signature*	*signature*
Signature of Guide	Signature of HOD	Signature of Principal
Prof. G H Ravikumar	Prof. G H Ravikumar	Dr. Narendra viswanath
Asst. Professor	HOD and Asst. Professor	Principal
Dept. of EEE	Dept. of EEE	SIET, Tumkur-06
SIET, Tumkur-06	SIET,Tumkur-06	

External Viva

Name of the Examiners: Signature with Date:

1. Tanuja k-s

2. Shwetha TM

signature k-s 28/7/22

& 28/7/22

signature
PRINCIPAL
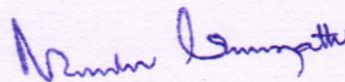**SIET., TUMAKURU.**

ACKNOWLEDGEMENT

We express my profound gratitude to Dr. Narendra Viswanath, Principal, S.I.E.T, who has created a pleasant environment and guided towards being a good citizen.

Our deep gratitude to Prof. G H Ravikumar, HOD Dept. of EEE. S.I.E.T, for his support and co-operation during the course of this mini Project work.

We thank the guide, Mr. G H Ravikumar, Asst. Prof., Dept. of EEE, S.I.E.T, who helped me out by correcting all my mistake and making the mini Project work successful.

ASHWINI   [1SV19EE002]

MANJULA K.T [1SV19EE005]

PRINCIPAL
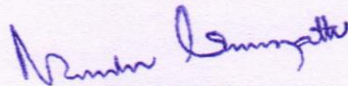SIET., TUMAKURU.

UNDERTAKING

We.ASHWINI(1SV18EE002), MANJULA K.T(1SV19EE401) Student of 6th semester, Bachelor of Engineering in Electrical & Electronics Engineering, S.I.E.T,Tumakuru here by declare that the mini Project work titled "PULSE RATE MONITORING USING ARDUINO", embodies report of our mini Project work carried out by us under the guidance of Mr. G H Ravikumar, Dept. Of EEE, Shridevi Institute of Engineering and Technology, Tumakuru, as Partial fulfillment of requirements for the award of B.E. Degree. This Project work has not been submitted for the award of any other degree.
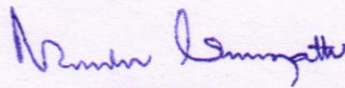
Place: Tumkur

Date:

ASHWINI

MANJULA K.T

PRINCIPAL
SIET., TUMAKURU.

ABSTRACT

Pulse rate sensor is an electronic device that is used to measure the heart rate i.e. speed of the heartbeat. Monitoring body temperature, heart rate and blood pressure are the basic things that we do in order to keep us healthy.in order to measure the body temperature, we use thermometers and asphygmomanometer to monitor the arterial pressure or blood pressure. Heart rate can be monitored in two ways: One way is to manually check the pulse either at wrists or neck and the other way is to use a heartbeat sensor. In this project, we have designed a heart rate monitor system using arduino and heartbeat sensor. We can find the principle of pulse rate sensor, working of the pulse rate sensor and arduino based heart rate monitoring system using a practical pulse rate sensor.

PRINCIPAL
SIET., TUMAKURU.