

Dr. Ambedkar Institute of Technology

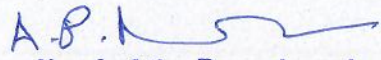
Department of Medical Electronics Engineering

Project Details

Batch: 2018-2022

SL.NO	USN	NAME OF THE STUDENT	PROJECT TITLE	PLACE OF CONDUCTION
1	1DA18ML001	AMOGHAVARSHA N	COGNITIVE EFFECTS OF YOGA ON DIABETIC EFFECTED BASED ON ERP ANALYSIS	S-VYASA YOGA UNIVERSITY JIGANI,BANGALORE.
2	1DA18ML003	ARPITHA S		
3	1DA18ML013	POOJA M		
4	1DA18ML015	RAKSHITHA M		
1	1DA17ML002	BHARATH M	DESIGNING A PORTABLE VENTILATOR	DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
2	1DA17ML011	MAHESH L		
3	1DA18ML006	HARSHA MOHAN		
4	1DA19ML400	VINAY KUMAR K DESHPANDE		
1	1DA18ML002	ANVITH ANAND P	PREDICTION OF DIABETIC RETINOPATHY USING NEURAL NETWORKS	DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
2	1DA18ML007	HITHAISHRI RAJ D		
3	1DA18ML008	KARTHIK A		
4	1DA18ML019	SANJANA B A		
1	1DA18ML004	DIGAMBAR DHANAGAR	DEVELOPMENT OF AN ASSESSMENT TOOL BASED ON NEUROMECHANIC MEASUREMENTS USING OPENPOSE ALGORITHM	DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
2	1DA18ML017	SAHANA L		
3	1DA18ML023	TANIYA P		
4	1DA18ML024	VARDHINI V M		

1	1DA18ML005	DIVYA R	CARDIAC ARRHYTHMIA DETECTION USING MACHINE LEARNING	DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
2	1DA18ML016	RISHIKA R		
3	1DA18ML018	SANGEETHA R		
4	1DA18ML021	SPANDANA K R		
1	1DA18ML009	LEKHA V	ANALYSIS OF SLEEP EEG USING ANN TECHNIQUE	DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
2	1DA18ML011	MEENA E		
3	1DA18ML022	SREE HARSHA RAMAANATH A V L		
4	1DA18ML025	VISHMA V		
1	1DA18ML010	MANASA R	MEDITATION BENEFITS BASED ON EEG SPECTRAL ANALYSIS	S-VYASA YOGA UNIVERSITY JIGANI, BANGALORE
2	1DA18ML012	NIHARIKA HARISH		
3	1DA18ML014	PRIYANKA H		
4	1DA18ML020	SHEETAL S		


Head of the Department
Dept. of Medical Electronics Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 050

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous institution affiliated to VTU, Belgaum and Aided by Government of Karnataka, INDIA)
Near Jnana Bharathi Campus, Outer Ring Road, Mallathally, Bengaluru-560056.



PROJECT REPORT

on

“DESIGNING A PORTABLE VENTILATOR”

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

BACHELOR OF ENGINEERING

in

MEDICAL ELECTRONICS

by

BHARATH M	1DA17ML002
MAHESH L	1DA17ML011
HARSHA MOHAN	1DA18ML006
VINAY KUMAR K DESHPANDE	1DA19ML400

Under the Guidance

of

Dr. D K RAVISH

Associate Professor

Department of Medical Electronics

Dr. AIT, Bengaluru - 560056

DEPARTMENT OF MEDICAL ELECTRONICS

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

MALLATHAHALLI, OUTER RING ROAD, BENGALURU – 560056

2021-22

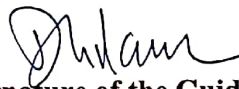
Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
Mallathahalli, Bengaluru - 560056


Department of MEDICAL ELECTRONICS




Certificate

Certified that the project work entitled “DESIGNING A PORTABLE VENTILATOR”, carried out by BHARATH M (1DA17ML002), MAHESH L (1DA17ML011), HARSHA MOHAN (1DA18ML006), VINAY KUMAR K DESHPANDE (1DA19ML400), Bonafede students of Dr. Ambedkar Institute of Technology, Bengaluru – 560056 in partial fulfillment for the award of Bachelor of Engineering in MEDICAL ELECTRONICS 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.


Signature of the Guide
(Dr. D K RAVISH)




Signature of the HOD
(Dr. SHANTHI K J)


Signature of the Principal
(Dr. MEENAKSHI.M)

Name of the Examiners

1. Dr. A. P. Venkatesh
2. Dr. Narayanaswamy, Ch

Signature with Date

 20/7/22
 20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An autonomous institution, Aided by Govt. of Karnataka, Affiliated to VTU)BDA
Outer Ring Road, Near Jnana Bharathi Campus, Bengaluru - 560056



PROJECT REPORT
ON

“PREDICTION OF DIABETIC RETINOPATHY USING NEURAL NETWORKS”

Submitted By

ANVITH ANAND P	1DA18ML002
HITHAISHRI RAJ D	1DA18ML007
KARTHIK A	1DA18ML008
SANJANA B A	1DA18ML019

**BACHELOR OF ENGINEERING
IN**

DEPARTMENT MEDICAL ELECTRONICS

Under The Guidance Of

Dr A P MANJUNATHA
Associate Professor,
Department of Medical Electronics

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
Department of Medical Electronics

2021-2022

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
(An autonomous institution, Aided by Govt. of Karnataka, Affiliated to
VTU)BDA Outer Ring Road, Near Jnana Bharathi Campus, Bengaluru -
560056



Department of Medical Electronics

CERTIFICATE

Certified that the Major project work - Phase II (Eighth Semester) entitled **Prediction Of Diabetic Retinopathy Using Neural Networks** is carried out by the following bonafide students of Medical Electronics in partial fulfillment for the award of Bachelor of Engineering, B. E (Medical Electronics) at **Dr. Ambedkar Institute of Technology, Bangalore**, during the academic year 2021-22.

Sl. No	USN(ascending order)	Name of Student
1	1DA18ML002	ANVITH ANAND P
2	1DA18ML007	HITHAISHRI RAJ D
3	1DA18ML008	KARTHIK A
4	1DA18ML019	SANJANA B A

It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the project report.

The project report has been approved satisfying the academic requirements prescribed for the said Degree.

Guide	HOD

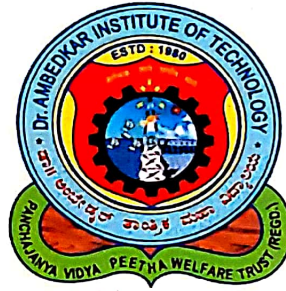
External Viva:

Sl. No	Name of the examiner	Signature with date
1	Dr A. P. ...	20/7/22
2	Dr. Narayana ...	20/7/22

Principal

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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Aided By Govt. of Karnataka

Project Report on

DEVELOPMENT OF AN ASSESSMENT TOOL BASED ON NEUROMECHANIC MEASUREMENTS USING OPENPOSE ALGORITHM

Submitted by:

Digambar Dhanagar	1DA18ML004
Sahana L	1DA18ML017
Taniya P	1DA18ML023
Vardhini V M	1DA18ML024

**BACHELOR OF ENGINEERING
IN
DEPARTMENT OF MEDICAL ELECTRONICS**

**Under the guidance
of.**

**Dr. D.K. Ravish
Associate Professor
Medical Electronics
Dr. Ambedkar Institute
of Technology**

**Department of Medical Electronics
2021-2022**



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Aided by Govt. of Karnataka, Affiliated to VTU)



CERTIFICATE

This is to certify that the project work titled “DEVELOPMENT OF AN ASSESSMENT TOOL BASED ON NEUROMECHANIC MEASUREMENTS USING OPENPOSE ALGORITHM” carried out by DIGAMBAR DHANAGAR, SAHANA L, TANIYA P AND VARDHINI.V.M with USN 1DA18ML004, 1DA18ML017, 1DA18ML023 and 1DA18ML024, bonified students of Dr. Ambedkar Institute of Technology, Bangalore-56, under my guidance during the academic year 2021-2022 and is in partial fulfillment for the award of Bachelor of engineering in the Department of Medical Electronics of the Dr. Ambedkar Institute of Technology, Bangalore-56. It is certified that all the corrections/suggestions indicated during internal assessment have been incorporated in the report deposited in the department.

The project report has been approved as it satisfies the academic requirements in respect to project work prescribed for the said degree.

Dr. D K Ravish

Associate Professor

Dept. of ML, Dr. AIT

Dr. M Meenakshi

Principal

Dr.AIT

Dr. Shanthi K J

Head of the Department

Dept. of ML, Dr. AIT

External Viva

Name of the examiner, Signature with date

1. Dr. Manjunatha A.B.

20/7/22

2. Dr. NARAYANappa, Ch

20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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Near Jnana Bharathi Campus, Outer Ring Road, Mallathally, Bengaluru-560056.



DEPARTMENT OF MEDICAL ELECTRONICS

MAJOR PROJECT (18MLP81)
REPORT ON

**“CARDIAC ARRHYTHMIA DETECTION USING MACHINE
LEARNING”**

SUBMITTED BY

DIVYA R	1DA18ML005
RISHIKA R	1DA18ML016
SANGEETHA R	1DA18ML018
SPANDANA K R	1DA18ML021

UNDER THE GUIDANCE

OF

Dr.NAYANA R SHENOY

(INTERNAL)

ASSISTANT PROFESSOR OF MEDICAL
ELECTRONICS

DEPARTMENT OF MEDICAL ELECTRONICS

2021-2022



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous institution affiliated to VTU, Belgaum and Aided by Government of Karnataka, INDIA)
Near Jnana Bharathi Campus, Outer Ring Road, Mallathally, Bengaluru-560056.



CERTIFICATE

This is to certify that the project work titled “CARDIAC ARRHYTHMIA DETECTION USING MACHINE LEARNING” is carried out DIVYA R (1DA18ML005), RISHIKA R (1DA18ML016), SANGEETHA R (1DA18ML018), SPANDANA K R (1DA18ML021), bonafide students of Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU-56, during the academic year 2021-2022 and is in partial fulfilment for the award of the degree in BACHELOR OF ENGINEERING in MEDICAL ELECTRONICS of Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, Bangalore-56. It is certified that all correction/suggestion indicated during internal assessment have been incorporated in the report deposited in the department. It is further certified that their work has not been submitted to any university/organization for award or any other degree or diploma or certificate including a similar degree. The project report has been approved to it satisfies the academic requirements in the respect of project work prescribed for the Bachelor of Engineering Degree.

Nrshenoy

Signature of the Internal

Guide

Dr.Nayana R Shenoy

Meechakshi

Signature of the Principal

Dr. M Meenakshi

A.P.

Signature of the HOD

Dr. Shanthi K J

1. Dr. Anandappa, CE

AP 20/7/22

② Dr. A.P. Anandappa A.P.

A.P. 20/7/22



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Karnataka India Bangalore-560056



Aided By Govt. of Karnataka

PROJECT PHASE -02

“Analysis of Sleep EEG Using ANN Technique”

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

BACHELOR OF ENGINEERING

in

MEDICAL ELECTRONICS

By

Lekha V 1DA18ML009

Meena E 1DA18ML011

Sree Harsha Ramaanath AVL 1DA18ML022

Vishma V 1DA18ML025

Under the Guidance of
Dr.A P MANJUNATHA

Associate Professor, Department of ML,Dr.AIT,Bengaluru-560056

Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY
Mallathahalli, Bengaluru-560056

DEPARTMENT OF MEDICAL ELECTRONICS

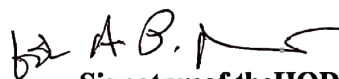


CERTIFICATE

Certified that the project work entitled “Analysis Of Sleep EEG Using ANN Technique”, carried out by **LEKHA V (1DA18ML009)**, **MEENA E (1DA18ML011)**, **SREE HARSHA RAMAANATH AVL (1DA18ML022)**, **VISHMA V (1DA18ML025)** bonafide students of Dr. Ambedkar Institute of Technology, Bengaluru – 560056 in partial fulfillment for the award of Bachelor of Engineering in **MEDICAL ELECTRONICS** 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 department library. The project report has been approved as it satisfies the academic requirements.


Signature of the guide

(Dr. A P MANJUNATHA)


Signature of the HOD

(Dr. SHANTHI KJ)


Signature of the Principal

(Dr. MEENAKSHI.M.)

External Viva

Name of the Examiners

Signature with Date

1. Dr. Manjunatha A.P.

 20/7/22

2. Dr. Narayanaappa, C.

 20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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Near Jnana Bharathi Campus, Outer Ring Road, Mallathally, Bengaluru-560056.



PROJECT REPORT ON

“MEDITATION BENEFITS BASED ON EEG SPECTRAL ANALYSIS”

Submitted by

MANASA R	1DA18ML010
NIHARIKA HARISH	1DA18ML012
PRIYANKA H	1DA18ML014
SHEETAL S	1DA18ML020

BACHELOR OF ENGINEERING

In

DEPARTMENT OF MEDICAL ELECTRONICS

Under the guidance of

Dr. SHANTHI K J (INTERNAL)

HOD of ML

KAMALA C (INTERNAL)

Assistant professor of

MI

Dr. Ambedkar institute of technology

Dr. DEEPESHWAR SINGH

(EXTERNAL)

ASSOCIATE PROFESSOR

S-VYASA YOGA UNIVERSITY,

BANGALORE, INDIA

DEPARTMENT OF MEDICAL ELECTRONICS

Dr. Ambedkar Institute Of Technology, Bangalore

2021-2022

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous institution affiliated to VTU, Belgaum and Aided by Government of Karnataka, INDIA)
Near Jnana Bharathi Campus, Outer Ring Road, Mallathally, Bengaluru-560056.



CERTIFICATE

This is to certify that the project work titled “**MEDITATION BENEFITS BASED ON EEG SPECTRAL ANALYSIS**” is carried out by **MANASA R (1DA18ML010), NIHARIKA HARISH (1DA18ML012), PRIYANKA H (1DA18ML014), SHEETAL S (1DA18ML020)** bonafide students of **Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU-56**, during the academic year 2021-2022 and is in partial fulfilment for the award of the degree in **BACHELOR OF ENGINEERING in MEDICAL ELECTRONICS** of **Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, Bangalore-56**. It is certified that all correction/suggestion indicated during internal assessment have been incorporated in the report deposited in the department. It is further certified that their work has not been submitted to any university/organization for award or any other degree or diploma or certificate including a similar degree. The project report has been approved to it satisfies the academic requirements in the respect of project work prescribed for the Bachelor of Engineering Degree.

Signature of the Principal
Dr. M Meenakshi

Signature of the Internal
Guide
Dr. Shanthi K J
Kamala C

Sign of Internal Examiner:

Sign of External Examiner:

Date: 20/07/2022

Signature of the External
Guide
Dr. DEEPESHWAR
SINGH

A.P. 20/7/22

CP 20/7/22

Signature of the HOD
Dr. Shanthi K J

LETTER OF COMPLETION

This is to certify that **MANASA R (1DA18ML010), NIHARIKA HARISH (1DA18ML012), PRIYANKA H (1DA18ML014), SHEETAL S (1DA18ML020)**, students of B.E (Medical Electronics) at **Dr. Ambedkar Institute of Technology, Bangalore**, has done their project work on **MEDITATION BENEFITS BASED ON EEG SPECTRAL ANALYSIS** at **S-VYASA YOGA UNIVERSITY, BANGALORE, INDIA**. During the project work period, students carried out their duties and responsibilities satisfactorily. Students have demonstrated their ability to understand the requirements of a product and also tackle any issues with smart design decisions. They were punctual and maintained professionalism throughout the project work.

I wish them all the best for their future endeavors in choosing a career of their choice to excel in.

[Signature]



Dr. DEEPESHWAR SINGH, Ph.D.

Principal Investigator & Young Scientist
Swami Vivekananda Yoga Anusandhana Samsthana
#19, Eknath Bhavan, Gavipuram Exrtn.
KG Nagar, Bangalore: 560-019-India
Mail Id: deepeshwar.singh@gmail.com

[Name and Designation]

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous institution affiliated to VTU, Belgaum and Aided by Government of Karnataka, INDIA)

BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathalli, Bengaluru-560056.



Aided By Govt. of Karnataka

PROJECT REPORT ON

COGNITIVE EFFECTS OF YOGA ON DIABETIC EFFECTED BASED ON ERP ANALYSIS

SUBMITTED BY

AMOGHAVARSHA N	1DA18ML001
ARPITHA S	1DA18ML003
POOJA M	1DA18ML013
RAKSHITHA M	1DA18ML015

BACHELOR OF ENGINEERING

IN

DEPARTMENT OF MEDICAL ELECTRONICS

UNDER THE GUIDANCE OF

Dr. SHANTHI K J (INTERNAL) HOD of ML Department	Dr. DEEPESHWAR SINGH(EXTERNAL)
Dr. NAYANA R SHENOY (INTERNAL) ASSISTANT PROFESSOR Department of Medical Electronics	ASSOCIATE PROFESSOR S-VYASAYOGA UNIVERSITY, BANGALORE, INDIA
Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY	

DEPARTMENT OF MEDICAL ELECTRONICS

2021-2022

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous institution affiliated to VTU, Belgaum and Aided by Government of Karnataka, INDIA)

BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathalli, Bengaluru-560056.



CERTIFICATE

This is to certify that the project work titled **“COGNITIVE EFFECTS OF YOGA ON DIABETIC EFFECTED BASED ON ERP ANALYSIS”** is carried out by Mr./Ms. AMOGHAVARSHA N, ARPITHA S, POOJA M and RAKSHITHA M with USN 1DA18ML001, 1DA18ML003, 1DA18ML013 and 1DA18ML015 respectively, bonafide students of Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU-56, during the academic year 2021-2022 and is in partial fulfilment for the award of the degree in BACHELOR OF ENGINEERING in MEDICAL ELECTRONICS of Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, Bangalore-56. It is certified that all correction/suggestion indicated during internal assessment have been incorporated in the report deposited in the department. It is further certified that their work has not been submitted to any university/organization for award or any other degree or diploma or certificate including a similar degree. The project report has been approved to it satisfies the academic requirements in the respect of project work prescribed for the Bachelor of Engineering Degree.

Signature of the Principle

Dr. M MEENAKSHI

Signature of the HOD and
Internal Guide

Dr. SHANTHI K J

Signature of the Internal
Guide

Dr. NAYANA R SHENOY

Signature of the External
Guide

Dr. DEEPESHWAR
SINGH

External Viva

Name of the examiners Signature with Date

1. Dr. Narayanaappa. Ch

20/7/22

2. Dr. Narayanaappa A.P.

20/7/22

LETTER OF COMPLETION

This is to certify that Mr./Ms. AMOGHAVARSHA N, ARPITHA S, POOJA M and RAKSHITHA M with USN 1DA18ML001, 1DA18ML003, 1DA18ML013 and 1DA18ML015 respectively, students of B.E (Medical Electronics) at Dr. Ambedkar Institute of Technology, Bangalore, has done their project work on COGNITIVE EFFECTS OF YOGA ON DIABETIC EFFECTED BASED ON ERP ANALYSIS at S-VYASA YOGA UNIVERSITY, BANGALORE, INDIA. During the project work period, students carried out their duties and responsibilities satisfactorily. Students have demonstrated their ability to understand the requirements of a product and also tackle any issues with smart design decisions. They were punctual and maintained professionalism throughout the project work.

I wish them all the best for their future endeavors in choosing a career of their choice to excel in.



Dr. DEEPESHWAR SINGH, Ph.D.
Principal Investigator & Young Scientist
Swami Vivekananda Yoga Anusandhana Samsthana
#19, Eknath Bhavan, Gavipuram Exrtn.
KG Nagar, Bangalore: 560-019-india
Email: deepeshwar.singh@gmail.com

Dr. DEEPESHWAR SINGH

ASSOCIATE PROFESSOR

S-VYASAYOGA UNIVERSITY, BANGALORE, INDIA