

Certified that the work entitled "Study of Performance and Emission Characteristics of Four Stroke Indirect Injection (IDI) Diesel Engine with Diesel-Used Transformer Oil (UTO) blends" has been carried out by

### 1. Mr. PRATHWIK

2. Mr. M V VIGHNESH

3. Mr. RAHUL R P

4. Mr. WELTON ASLAM DSOUZA

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

lan Dr. Raja Yateesh Yadav 222023

Associate Professor & Guide Department of Mechanical Engineering, SMVITM, Bantakal

· P. Jadan 2205

Dr. Raja Yateesh Yadav Associate Professor & Head, Department of Mechanical Engineering, SMVITM, Bantakal

mer 25,5.20

4MW15ME079

4MW19ME008

4MW19ME014

4MW19ME025

2023 Dr. Thirumaleshwara Bhat PrinPrinCipal SMHITMADBANAKADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEN EN Vishwothama Nagar Udupi Dist. BANTAKAL - 574 115

### **External Viva-Voce Examination**

Name of the Examiner 1. Thimmeppe on 2. Dr. H. heleyg fram

Signature with date



# CERTIFICATE

Certified that the work entitled "DESIGN AND DEVELOPMENT OF LEAF PLATE MOLDING MACHINE FOR PRODUCING BIODEGRADABLE PLATES FROM WASTE LEAVES" has been carried out by

1. Mr. CHANDAN NELLI M K

2. Mr. PRATHIK AMBALPADY

3. Mr. PRATHVIRAJ

4. Mr. SHESHAGIRI VAIKUNTH PAI

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

**Dr. Sudarshan Rao K** Dean (Quality Assurance) Department of ME SMVITM, Bantakal

Name of the Examiner

1. Thimmapper M 2. Dr. Hindouge Prase-

N. J. Tadav 24 2023

Dr. Raja Yateesh Yadav Associate Professor & Head Department of ME ASMAYIEM, Bantakahd Dept. of Mechanical Engg. SMVITM, BANTAKAL 574115

**External Viva** 

4MW18ME004

4MW20ME400

4MW20ME401

4MW20ME403

Dr. Thirumaleshwara Bhat Principal SMVITNI Bantakal SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMER Vishwellicture Nagar UC api Dist. DANIMICAL Science





## CERTIFICATE

Certified that the work entitled "HYBRID VERTICAL TURBINE ELECTRICITY GENERATOR USING VEHICULAR MOVEMENT" has been carried out by

CHETAN A NAIK

MOHAMMED RIDAN

N GAUTHAM BHAT

### SATHWIK S

USN: 4MW19ME002 USN: 4MW19ME009 USN: 4MW19ME010 USN: 4MW19ME017

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

Mr. Ananth M Mallya Assistant Professor Department of ME SMVITM, Bantakal

(1:T.Ta 2023

Dr. Raja Yateesh Yadav Associate Professor & Head Department of ME ASMVITM Bantakal Dept. of Mechanical Engg SMVITM. BANTAKAL 574115 External Viva

Dr. Thirumaleshwara Bilar Principal SSMVTTM, Banakai INSTITUT Vizioni and Canton

Signature with

Name of the Examiner

Thimmappan 2. Dr. H. Indaya Prusan

SMVITM CERTIFICATE

Certified that the work entitled "Design and Fabrication of Tamarind and Salt Mixing Machine" has been carried out by

#### 1. Mr. H J GAGAN

#### 2. Mr. RAVIRAJ

#### 3. Mr. SUBRAMANYA S POOJARY

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

23 Dr. MADHUKAR NAYAK

Associate Professor & Guide Department of Mechanical Engineering, SMVITM, Bantakal

adar 23 2023

Dr. Raja Yateesh Yadav Associate Professor & Head, Department of Mechanical Engineering, SMVITM, Bantakal Associate Prof & Head Dept. of Mechanical Engg. SMVITM, BANTAKAL 574115

Dr. Thirumaleshwara Bhat Fitinsipal SHISMANDIMA Bantakal INSTITUTE OF TECHNOLOGY & MANAGEMENT

Vishwethama Nagar Udupi Dist, BANTAKAL 574-15

**External Viva-Voce Examination** 

Name of the Examiner 2 Dr. H. Wowy Preson

Signature with date

#### 4MW19ME003

### 4MW19ME016

### 4MW19ME021



Certified that the work entitled "INVESTIGATION OF MICROSTRUCTURE, MECHANICAL PROPERTIES AND CORROSION BEHAVIOUR OF MDFed Mg BASED ALLOY" has been carried out by

1. Mr. K AMBRUTHESH

2. Mr. SUMANTH G HEGDE

### 3. Mr. PUNITH R

#### 4. Mr. SHARATH KUMAR S

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

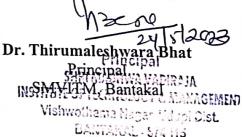
Mr. Aditya Kudva S Sr. Assistant Professor Department of ME SMVITM, Bantakal

Name of the Examiner

N. J. Jadav 24 2023

Dr. Raja Yateesh Yadav Associate Professor & Head Department of ME SMVITM, Bantakal Associate Prof & Head Dept. of Mechanical Engg. SMVITM, BANTAKAL 574115

**External Viva** 



4MW19ME004

4MW19ME023

4MW19ME026

4MW20ME402

1. Thimmeppins 2. Dr. H. Indays Phisan Signature with date



## Certified that the work entitled **"SOLAR POWERED GRASS TRIMMER WITHOUT** BATTERY" has been carried out by

1. Mr. KIRAN	
2. MR. LIKITH	
3. MR. LOHITH	

### 4. MR. PRASHANTH

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

**Dr. Manjunath S** Sr. Assistant Professor Department of ME SMVITM, Bantakal

J. Jadar 24 2023

Dr. Raja Yateesh Yadav Associate Professor & Head Dept Department of ME SMVSMVITM, Bantakal

Dr. Thirumale

PRincipal SISMIVITM ABantakal INSTITUTE OF TECHNOLOGY & MANAGEMEN Vishwothama Nagar, Udupi Dist BANTAKAL - 574415

4MW19ME005

4MW19ME006 4MW19ME007 4MW19ME013

Name of the Examiner Thimmeposon 1...... 2. A.H. helage Proven

**External Viva** 

ure with date

# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY& MANAGEMENT BANTAKAL, UDUPI-574115

DEPARTMENT OF MECHANICAL ENGINEERING



Certified that the work entitled "CHARACTERIZATION OF MAGNESIUM ALLOY BASED SURFACE NANO COMPOSITE BY FRICTIONAL STIR PROCESS" has been carried out by

1. Mr. SHARON EDEN MENEZES	4MW19ME020
2. Mr. PRASAD MARUTI GHORPADE	4MW19ME012
3. Mr. SAYED MOHAMMED HUSSIAN	4MW19ME018
4. Mr. NIKHIL KUMAR MOOLYA	4MW19ME011
who are bonafide students of SMVITM, Bantakal, in partial fulfillment	for the award of

Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvarava Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

Lingaraj K Ritti / Mr. Aditva Kudva S Assistant Professor(Sr), Department of ME, SMVITM, Bantakal

Taday 24 2023 Dr. Thirumaleshwara Bha Dr. Raja Yateesh Yadav Associate Professor & Head,

Principal, Department of ME 1900 SHOTTAL Bantakal Vishwothama Nagar, Udupi Dist. BANTAKAL - 574 115

Name of the Examiner

2 Dr. H. Indaya from

**External Viva** 

Signature with date

12 25 5, 202



# CERTIFICATE

Certified that the work entitled "PERFORMANCE ANALYSIS OF CONCENTRATING TYPE SOLAR COOKER WITH PCM STORAGE FOR LATE EVENING COOKING" has been carried out by

1. Mr. RATHAN PATKAR4MW19ME0152. Mr. SHABARISH R POOJARY4MW19ME0193. Mr. SUDEEP DHONDYA4MW19ME0224. Mr. VIGHNESH UDUPA4MW19ME024

who are bonafide students of SMVITM, Bantakal, in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering discipline of the Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the corrections/suggestions indicated during the internal assessment have been incorporated in the report. The project report presented has been approved, as it satisfies the academic requirement in respect of project work prescribed by the University for the award of the degree.

1. Tadar 242023

Mr. Ravinarayan R Rad Assistant Professor(Sr) Department of ME SMVITM, Bantakal Dr. Raja Yateesh Yadav Associate Professor & Head Dept Department of Ming, BM SM VJJM, Bantakal 15 Dr. Thirumateshwara Bhat

Principal SMVITW, Bantakal SHRIMADHWA VADICAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT Vishwothama Nagar Udupi Dist. BANTAICAL - 574 115

Signature with date

External Viva Name of the Examiner

2. Dr. Ho la dayn fram