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This Certificate is awarded to **AGHAV SANKET GAJANAN**
of Second Year Mechanical Engineering Department, Zeal College of Engineering & Research, Roll No. **S611002** *for the successfully completion of Project Based Learning-II (PBL) Activity for the Project title of* **Neodymium Magnetic solar Car**
during academic year 2023-24

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HOD, Mechanical

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This Certificate is awarded to **BHANDURGE AKANKSHA R.**

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*Research, Roll No. **S611035** for the successfully completion of Project Based Learning-II*

*(PBL) Activity for the Project title of **Solar Powered Portable Thermoelectric Refrigeration System***

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*Research, Roll No. **S611036** for the successfully completion of Project Based Learning-II*

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This Certificate is awarded to **GADE KSHITIJ SANDIP**

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This Certificate is awarded to **JADHAV ROHAN SHASHIKANT**

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This Certificate is awarded to **JAGADALE NIKHIL ASHOK**

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*Research, Roll No. **S611051** for the successfully completion of Project Based Learning-II*

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This Certificate is awarded to **JAMBHALE SHREYAS PRAMOD**

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This Certificate is awarded to **KENDRE RAMKISHAN D.**

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This Certificate is awarded to **KHOBRADE VEDANT SHAILESH**

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This Certificate is awarded to **KHOSE KARAN VILAS**

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This Certificate is awarded to **MAHAJAN SHREYA SANTOSH**
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This Certificate is awarded to **OM SANJAY MANKAR**

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This Certificate is awarded to **MOHITE VAIBHAV VILAS**

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This Certificate is awarded to **PALANGE SHRUTIKA ASHOK**

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This Certificate is awarded to **PILAWARE ANKITA A.**

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*Research, Roll No. **S612030** for the successfully completion of Project Based Learning-II*

*(PBL) Activity for the Project title of **Solar Fire Extinguisher***

during academic year 2023-24

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HOD, Mechanical

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This Certificate is awarded to **THAKUR PRIYANKA VIRENDRA**
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CERTIFICATE

This is to certify that *Mr. Khopatkar Amir Ashfaq, Mr. Kazi Rahil Liyakat, Mr. Pansare Tushar Sambhaji, Ms. Parnerkar Siddhi Jagdish* has successfully completed the Project Stage – II entitled “*Design and Fabrication of Cooling Chamber by using Thermoelectric Effect*” under my supervision, in the partial fulfilment of Bachelor of Engineering – Mechanical Engineering of University of Pune.

Date: 29/05/24

Place: Pune

Prof. A.V Karande

Prof. A.V Karande

Project Guide

Prof. S. M. Godase

Head of Department

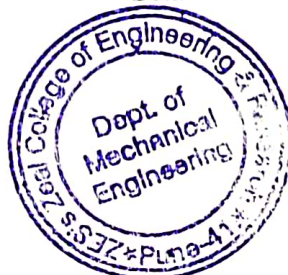
Project Coordinator

Dr. A. M. Kate

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External Examiner

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This is to certify that Suraj Kate, Trupti Kharade, Akash Mishra, Kiran Naik has successfully completed the Project Stage – II entitled “Investigation of Heat Exchanger Using PCM” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 29/05/24

Place : Pune

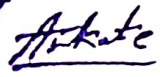

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Project Guide

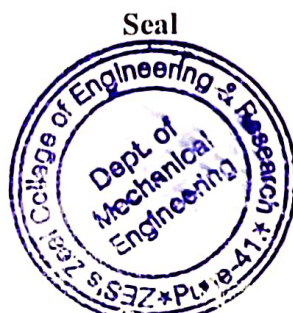

Prof. S. M. Godase
Head of Department


Prof. A. V. Karande

Project Coordinator


Dr. A. M. Kate
Principal


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CERTIFICATE

This is to certify that *Mr. Joshi Harsh Santosh*, has successfully completed the Project entitled "*Design & Development of Industrial Material Handling Manipulator*" under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 29/03/2024

Place : Pune

Dr. Y. M. Bhamare

Project Guide

Prof. S. M. Godase

Head of Department

Prof. A. V. Karande

Project Coordinator

Dr. A. M. Kate

Principal

External Examiner

Seal

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Joshi Harsh Santosh*, has successfully completed the Project entitled "*Design & Development of Industrial Material Handling Manipulator*" under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 29/09/2024

Place : Pune.

Dr. Y. M. Bhamare

Project Guide

Prof. A. V. Karande

Project Coordinator

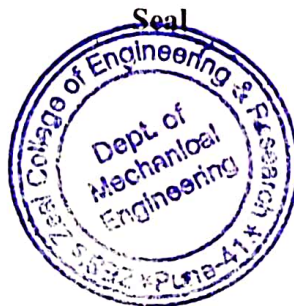
Prof. S. M. Godase

Head of Department

Dr. A. M. Kate

Principal

External Examiner



17th APRIL, 2024

PROJECT COMPLETION LETTER

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the following students of fourth year bachelor of mechanical engineering, from Zeal College of Engineering and Research, Pune has successfully completed their project work in our company on "Design & Development of Industrial Material Handling Manipulator" from 24th August 2023 to 17th April 2024. All the project work and its result are approved by the concerned authority of our company.

1. HARSH JOSHI
2. BHAVESH KUDALE
3. CHINMAY PHUTAK
4. PRAJWAL KAKADE

During this period, we found them hard working and sincere.


We wish them every success in their future endeavours.


From Jaycee Equipments Pvt. Ltd. Ramtekadi, Hadapsar, Pune- 411013




Mr. John D'Souza | Director

Jaycee Equipments Pvt Ltd.

 63/6, United Industrial Estate,
Ramtekadi, Hadapsar, Pune 411 028, India

 info@jaycee.co.in
www.jaycee.co.in

 +91 98220 40508
CIN NO: U29299PN2010PTC136793

Date: 24/08/2023

To,
The Head of Department,
Department Of Mechanical Engineering,
Zeal college of engineering and Research,
Narhe, Pune- 411041.

Subject: Sponsorship Letter

Dear Sir,

Jaycee is in the business of providing complete automation solutions for manufacturing industry. Jaycee Equipment Pvt Ltd. is material handling and lifting equipment manufacturer and service provider. Jaycee has made Component handling easy with finely engineered lifting arms that make life easy for operators and companies.

Following students of final year Mechanical Engineering has been given project work for their Final year Projects on the topic-

“Design & Development of Industrial Material Handling Manipulator”

Mr. Bhavesh Mahendra Kudale	PRN:72152583M
Mr. Harsh Santosh Joshi	PRN:72152499M
Mr. Chinmay Sunil Phutak	PRN:72152765F
Mr. Prajwal Pradeep Kakade	PRN:72152512B

Hence, Jaycee Equipments Pvt. Ltd. Ramtekadi, Hadapsar, Pune, Maharashtra 411013 is Sponsoring the above mentioned project for above list of students.

Regards,




Mr. John D'Souza | Director

Jaycee Equipments Pvt Ltd.

63/6, United Industrial Estate,
Ramtekadi, Hadapsar, Pune 411 028, India

 info@jaycee.co.in
www.jaycee.co.in

 +91 98220 40508
CIN NO: U29299PN2010PTC136793

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Shreyas M Aiwale, Mr. Ketan K Ambede, Ms. Sanika P Bhabal, Mr. Akshay R Chavan* has successfully completed the Project Stage – II entitled “Experimental Investigation Of Incremental Sheet Forming In The Manufacturing Of Titanium Based Plate With Different Geometric Shape” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/ 2024

Place : Pune

Prof. S S Adewar

Project Guide

Prof. S. M. Godase

Head of Department

Prof. A. V. Karande

Project Coordinator

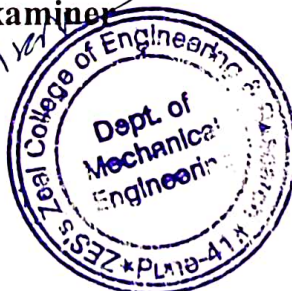
Dr. A. M. Kate

Principal

External Examiner

Dr. N. S. Katti

Seal



Zeal College of Engineering and Research

Narhe, Pune -411041



CERTIFICATE

This is to certify that Mr. Duddoo Parth P. , Mr.Dudhal Shantanu G. Mr.Dudhe Ghanashyam M. , Mr. Warkade Sujeetkumar K. has successfully completed the Project Stage – II entitled “Design, Analysis And Development Of Double Stacked Heat Exchanger.” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date 29/04/24

Place :

Prof. S. S. Borade

Project Guide

Prof. S. M. Godase

Head of Department

Prof. A. V. Karande

Project Coordinator

Dr. A. M. Kate

Principal

External Examiner





Mechatol Product Engineering Solutions Pvt Ltd

OFFICE ADDRESS

KETAN PARK, SECOND FLOOR, OPPOSITE TO SURAJ NAGAR NEAR GURUGANESH NAGAR SHANTIBAN
CHOWK
KOTHRUD, PUNE -411038

April 29, 2024

SPONSORED PROJECT COMPLETION LETTER

To

Whomsoever It May Concern

This is to inform that following students have successfully completed their industrial project in the name of "Design, Analysis & Development of Double Stacked Heat Exchanger". In the academic year 2023-2024 with Mechatol Product Engineering Solutions Pvt Ltd, Pune

College Name: Zeal College of Engineering and Research, Narhe

Candidates Name:

1. Parth Prashant Duddoo
2. Shantanu Ganesh Dudhal
3. Ghanashyam Madhukarrao Dudhe
4. Sujeetkumar Kanhaiya Warkade

During their tenure we found above students reliable and responsible
We wish them success in all their future endeavours.

Mr. Anand Bhise
Director
Mechatol Product Engineering Solutions Pvt Ltd
Pune, India

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Yash S. Jadhav, Mahesh U. Bhapse, Tejas S. Bhagwan, Ashik D. Ilamkar*, has successfully completed the Project Stage – II entitled “**Evaporative Air Cooler with 360° Air Circulation using different cooling pad materials**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 29/4/24

Place : _____


Prof A. V. Karande

Project Guide


Prof. S. M. Godase

Head of Department


Internal Examiner


Dr. A. M. Kate

Principal


External Examiner



Zeal College of Engineering and Research

Narhe, Pune -411041



CERTIFICATE

This is to certify that **Mr.Koli Pranav Mallesha , Mr.Andhale Rohit Kisan Mr.Kodag Umesh Dhanaji, Mr.Gaikwad Raj Shantaram** has successfully completed the Project Stage – II entitled “**Design and Analysis of Modern Vertical Axis Wind Turbine (VAWT)**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of Savitribai Phule Pune University.

Date : 29/05/24

Place : Pune


Dr. P. P. Ritapure

Project Guide


Prof. A. V. Karande

Project Coordinator


Prof. S. M. Godase

Head of Department


Dr. A. M. Kate

Principal


External Examiner



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Chirag G. Dangi, Mr. Sushant S. Gaikwad, Mr. Abhishek S. Rajvir, Mr. Anurag R. Tiwari* has successfully completed the Project Stage – II entitled “*(Design and Development of Compressed air to air heat exchanger)*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

Place : Pune.

Prof. A. U. Gandigude

Project Guide

Prof. A. V. Karande

Project Coordinator

Prof. S. M. Godase

Head of Department

Dr. A. M. Kate

Principal

External Examiner





Technotrend Innovations Pvt Ltd.

S: No. 22/2A/2, Kute Industrial Estate, Narhe, Pune 411 041
technotrendinnovations@gmail.com www.technotrendinnovations.com
CIN: U29308PN2022PTC211473 PHONE: +91 9373428950/+91 7620401533

To,

Head of Department,

Mechanical Engineering,

Zeal Education Society's, Zeal College of Engineering & Research,

Pune 411041

Subject: Completion of Final Year Engineering Sponsored Project

Respected Sir,

We hereby inform you that our sponsored project "Project- Design and Development of Compressed Air to Air Heat Exchanger" given to the students of your college named as below have Allocated the project. They have done the project under the Guidance of Prof. A.U Gandigade (College Guide).

This project includes design, modeling, analysis and manufacturing which has been successfully completed.

- 1) Rajvir Abhishek Suresh
- 2) Tiwari Anurag Rajeshkumar
- 3) Dangi Chirag Ghanshyam
- 4) Gaikwad Sushant Satish

Thanking You,
Regards.



Vijay Gunge (Project Co-Guide)
Managing Partner,
Technotrend Innovation Pvt Ltd., Narhe, Pune.

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Sahil Badade, Sanidhya Ballal, Amulya Kadam*, has successfully completed the Project Stage – II entitled “*Design and Manufacturing of Paper Tube Cutting Machine*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/2024

Place : Pune


Prof. L.B. Mali

Project Guide


Prof. S.M. Godase

Head of Department


Prof. A. V. Karande

Project Coordinator


Dr. A. M. Kate

Principal


External Examiner

Seal



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Miss. Vaishnavi Nanasaheb Gadhave, Miss. Siddhi Sandip Hadkar, Mr. Vivek Tanaji Govekar, Mr. Prajwal Ramkishan Wakade*, has successfully completed the Project Stage – II entitled “CFD Analysis and Testing of Heat Transfer and Flow behavior of fluid flowing over the straight and twisted square fin” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of Savitribai Phule University of Pune.

Date: 30/5/2024

Place: Pune

Prof. N. B. Surwase

Project Guide

Prof. S. M. Godase

Head of Department

Prof. A. V. Karande

Project Coordinator

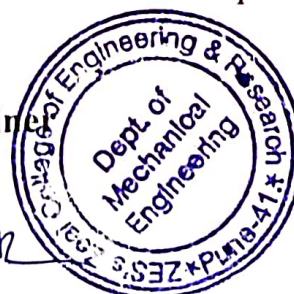
Dr. A. M. Kate

Principal

External Examiner

Seal

Dr. N. S. Karande



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that

Mr. Khule Harshal Sunil

Mr. Kokitkar Sahil Shankar


Mr. Kole Tejas Anil

Mr. Koryekar Chinmay Chandrakant

has successfully completed the Project Stage – II entitled “*Vibration Analysis of CI Engine Using Diesel and Bio-Diesel*” under my supervision, in the partial fulfilment of Bachelor of Engineering - Mechanical Engineering of Savitribai Phule Pune University.


Date : 30/4/24

Place : _____


Prof. A.R. Suryavanshi
Project Guide

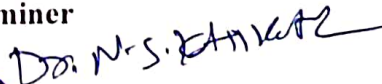

Prof. S.M. Godase
Head of Department


Prof. A.V. Karande
Project Coordinator


Prof. A.M. Kate
Principal


External Examiner




Dr. N.S. Patil

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041

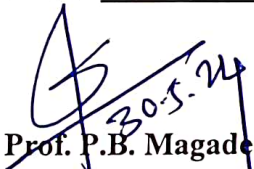


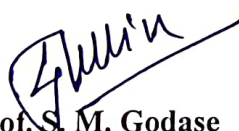
CERTIFICATE

This is to certify that **Mr. Ghorpade Prasad Rajiv, Mr. Gore Nikhil Ramhari, Mr. Gharal Mukund Pandharinath**, has successfully completed the Project Stage – II entitled “**Design and Development Automated Sun Tracking Solar Panel**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date 29/4/24


Place: _____


Prof. P.B. Magade
Project Guide


Prof. S. M. Godase
Head of Department


Prof. A. V. Karande
Project Coordinator


Dr. A. M. Kate
Principal


External Examiner



Zeal Education Society's

Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Tejas Dattatray Bheske, Mr. Lalaso Sanjay Valkunde, Mr. Jaydeep Ananda Chile*, has successfully completed the Project Stage – II entitled **Design and Manufacturing of Ceiling Fan Cleaning System** under my supervision, in the partial fulfilment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/24

Place : Pune


Prof. S. S. Adewar

Project Guide

Prof. S. M. Godase

Head of Department


Prof. A. V. Karande

Project Coordinator


Dr. A. M. Kate

Principal


External Examiner



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune - 411041



CERTIFICATE

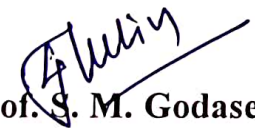
This is to certify that *Mr. Shantanu S. Ghate , Mr Arya V. Vilasagar, Mr. Manthan S. Naik , Mr.Sangram S. Sutar* has successfully completed the Project Stage – II entitled “*Performance Evaluation Of Battery Cooling System For EVs By Forced Cooling*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/2024

Place : Pune


Prof. S. K. Maknikar

Project Guide



Prof. S. M. Godase
Head of Department


Prof. A. V. Karande

Project Coordinator


Dr. A. M. Kate

Principal


External Examiner

Seal



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

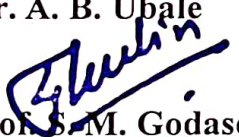
This is certify that *Mr. Prasad misal, Mr. sourav latke, Miss. Kulkarni Arpita M., Miss. Bhoite Mayuri M.*, has successfully completed the Project Stage – II entitled “*(Design and Development of Heat Pump)*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 11/29/5/24

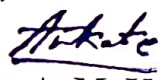
Place :


Prof. Guide Name

Dr. A. B. Upale

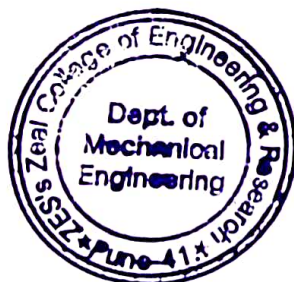

Prof. S. M. Godase
Head-of Department


Project coordinator
Prof. A. V. Karande


Dr. A. M. Kate
Principal


External Examiner

Seal



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. (Athare Nikhil) Ms. (Avhad Jyoti), Mr. (Gondhale Ritesh), Ms. (Pujari Laxmi)*, has successfully completed the Project Stage – II entitled “*(Productivity Improvement in Ultra BIW Line)*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

Place : Pune


Prof. A.V. Karande

Project Guide


Prof. S.M. Godase

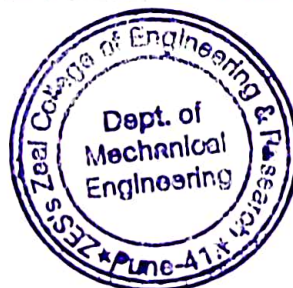
Head of Department


Internal Examiner


Dr. A.M. Kate

Principal

External Examiner





CERTIFICATE

This is to certify that, the project work titled: "PRODUCTIVITY IMPROVEMENT IN LCV ULTRA BIW LINE" is bonafide work carried out by Mr.Gondhale R G (B611056), Athare N B (B611007), Avhad J M (B611008) and Pujari L S (B613014) student for the Graduateship Examination of the , under my guidance and direction.

A handwritten signature in black ink, appearing to read 'Suhas Dhodare'.

Signature of the Guide:

Name: Mr. Suhas Dhodare

Designation: Deputy General Manager

Address- H Block, H-4, First Floor

Tata Motors Ltd, Pimpri, Pune-Maharashtra

Place: Pimpri, Pune

Date: 4 March 2024

TATA MOTORS LIMITED

MIDC, Bhosari, Pimpri-Chinchwad, Maharashtra 411018

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that Shivsamb Pawar, Satyajit Mokal, Praful More, Prathmesh Mule has successfully completed the Project Stage – II entitled “Design and Manufacturing of Weighing and Sorting Machine” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

Place : Pune


Prof. D. P. Kamble

Project Guide


Prof. S. M. Godase

Head of Department


Prof. A. V. Karande

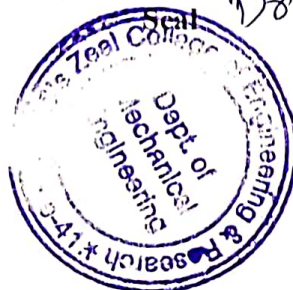
Project Coordinator


Dr. A. M. Kate

Principal


External Examiner

Dr. N. S. KATIPAL





TECHNOWINGS
AUTOMATION INDIA PVT. LTD.
An Automation Expert

Project Completion Certificate

Certificate of Completion

This is to certify that BE Mechanical students' names listed below from 'Zeal collage of Engineering & Research, Pune' has successfully completed the project titled 'Design & Manufacturing of Automatic Billet Sorting Machine' on 31st March - 2024. This project was undertaken by listed students in the capacity of Support & physical activities for Design & Manufacturing, for there academic year of 2023-24.

Throughout the duration of the project, all Project members / students demonstrated exceptional skills in group discussions, new Idea generations & executions, which helped towards contributed significantly to the successful completion of the project deliverables.

We appreciate the dedication and expertise that project group students brought to this project, which was completed to our full satisfaction.

This certificate is issued as a testament to the professional achievements and contributions of these students.

Student's Name	Collage Name	Collage Guide	Company Name	Company Authorities & Guides
1. Satyajit Mokal 2. Praful More 3. Shivsamb Pawar 4. Prathamesh Mule	Zeal Collage of Engineering & Research	Prof. D. P. Kamble	Success Industries	1. Mr. Sachin Saruk - Director 2. Mr. Sachin Patil - Manager Marketing 3. Mr. Mahavir Patil - Technical Manager 4. Mr. Gopal - Design

Issued on -15th April 2024.

Seal & Signature of Company



Ref.: SI/LTR/2023-24/012

Date. 09.11.2023

To Whomsoever It May Concern

This is to certified that **Mr. Satyajit Mokal, Mr. Shivshamb Pawar, Mr. Prathamesh Mule, Mr. Praful More** students of final year BE Mechanical engineering at **Zeal college and engineering research Pune** have carried out the project entitled **Automatic Weighing and Sorting Machine**.

This project has been conducted manufacturing plant of **Success Industries MIDC Chinchwad, Pimpri-Chinchwad, Pune - 411019**. The observations recorded and calculation scared out by them have been verified and found correct for the it is being started that manufacturing plant is in the process of implementing they are suggestions on energy conservation.

The conduct of this student during the tenure all the project works observed to be sincere effort taking and responsible. We extend our best wishes for their prosperous career and future ahead.

This certificate is being issue to them for their reference, record and academic use.

Authorized signatory,
For **SUCCESS INDUSTRIES**

For Success Industries,
Proprietor



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041




CERTIFICATE

This is to certify that **Mr. Wedant Saralkar, Mr. Dashrath Khopade, Mr. Pankaj Takale, Mr. Kishor Shinde**, has successfully completed the Project Stage – I entitled (**Design And Manufacturing Of Portable And Foldable Solar PV System For Domestic Use.**) under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/24

Place : _____


Prof. P. S. Gadhave

Project Guide

Prof. S. M. Godase
Head of Department


Prof. A. V. Karande

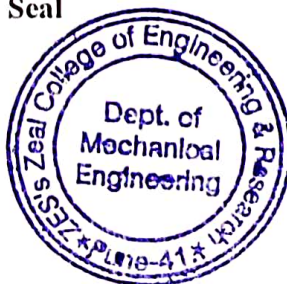
Project Coordinator


Dr. A. M. Kate

Principal


External Examiner

Seal



Zeal Education Society's

Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Dhawal Vinod Gaikwad, Mr. Sanjog Sanjay Gandhi, Mr. Prathmesh Gorakhnath Garud, Mr. Panchasheel Gulab Gaikwad* has successfully completed the Project Stage – II entitled "*Implementation Of Forced Convectional Mixed Mode Multipurpose Solar Dryer*" under my supervision, in the partial fulfilment of Bachelor of Engineering – Mechanical Engineering of University of Pune.

Date: 30/5/2024

Place: Pune

Prof. A.V. Karande

Project Guide

Prof. A.V. Karande

Project Coordinator

Prof. S.M. Godase

Head of Department

Dr. A.M. Kate

Principal

External Examiner

Seal



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041




CERTIFICATE

This is to certify that *Mr. Ghodnadikar Ganesh Sandeep, Ms. Khamkar Apurva Tukaram, Mr. Mohamad Zaidali Sajidali Khan, Ms. Kamble Lata Babasaheb*, has successfully completed the Project Stage – II entitled “*Development of an Android /IOS/ Microsoft App for Industrial Task Management and Record Storages*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

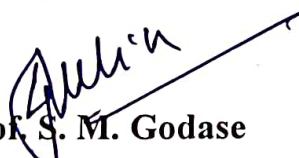
Place : Pune


 **Prof. A.B. Ubale**


Project Guide


Prof. A. V. Karande

Project Coordinator


Prof. S. M. Godase
Head of Department


Dr. A. M. Kate
Principal


External Examiner

Seal



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune - 411041



CERTIFICATE

This is to certify that *Mr. Yash. S. Karanjkar , Mr Kartik. T. Drwatkar, Mr. Ashitosh. S. Kamble , Mr. Digvijay. Y. Parmekar* has successfully completed the Project Stage – I entitled “*Design And Manufacturing Of Rope Climbing Robot*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/2024

Place : Pune

Dr. H. P. Jagtap

Project Guide

Prof. S. M. Godase

Head of Department

Prof. A. V. Karande

Project Coordinator

Dr. A. M. Kate

Principal

External Examiner

Seal



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041

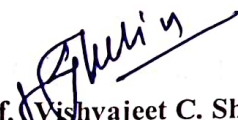


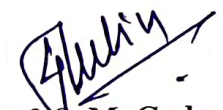
CERTIFICATE


This is to certify that **Mr. GAWADE PRATIK BABAN, DAFAL SANKET MAHADEV, CHAVAN SIDDHARTH SHIVAJI, CHANDEL DIGVIJAY KIRANSINGH**, has successfully completed the Project Stage – II entitled **“Electronic Operated Moped Main Stand”** under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.


Date : 30/5/24


Place : Pune.

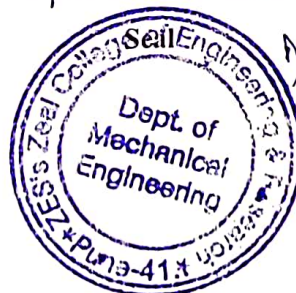

Prof. Vishvajeet C. Shinde
Project Guide


Prof. S. M. Godase
Head of Department


Prof. A. V. Karande
Project Coordinator


Dr. A. M. Kate
Principal


External Examiner




Dr. N. S. Patil

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Sunil V. Sirsath, Mr. Omkar P. Dhabale, Mr. Prasad R. Shinde, Mr. Anup J. Salunkhe*, has successfully completed the Project Stage – II entitled “*Development of PCM (Phase Change Material) based battery cooling system for Electric Vehicle*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30 / 5 / 2024

Place : Pune

Prof. S. K. Maknikar

Project Guide

Prof. S. M. Godase

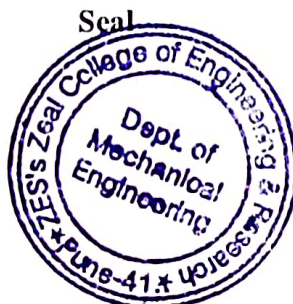
Head of Department

Internal Examiner

Dr. A. M. Kate

Principal

External Examiner



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Miss. Gayatri Deshmukh, Mr. Akhilesh Jadhav, Mr. Abhishek Kuril, Mr. Prabhanjan Katote* has successfully completed the Project Stage – I entitled “Design, Development and Analysis of zero waste eggs hatching machine” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/24

Place : Narhe


Dr. Ekta S. Mehta

Project Guide


Prof. A. V. Karande


Project Coordinator


Prof. S. M. Godase

Head of Department


Dr. A. M. Kate

Principal


Dr. M. S. Katikar



Zeal Education Society's

Zeal College of Engineering and Research

Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Vikas Bhagawan Shinde, Ms. Rani Arvind Salegave, Mr. Aslam Rasul Patan, Mr. Bhushan Ankush Ranpise*, has successfully completed the Project Stage - II entitled "Processing characterization of Mechanical properties of nano based PTFE with ceramic filler" under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date: 30/5/24

Place: _____

Prof. Bharat Aldar

Project Guide

Prof. S. M. Godase

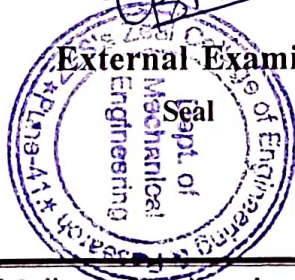
Head of Department

Internal Examiner

Dr. A. M. Kate

Principal

External Examiner



ZES's Zeal College of Engineering and Research, B.E (Mechanical)

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Miss. Neha Barkul, Miss. Swati Sanadi and Mr. Saurabh Kharade* has successfully completed the Project Stage – I entitled “**Design and Analysis of the diffuser augmented wind turbine**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

Place : Pune

Prof. Shilpa Gujar

Project Guide

Prof. A. V. Karande

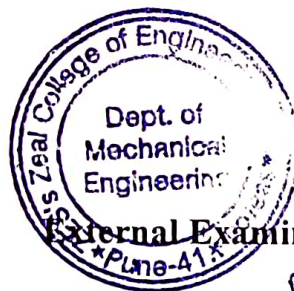
Project Coordinator

Prof. S. M. Godase

Head of Department

Dr. A. M. Kate

Principal



Seal

Dr. N. S. Wadgaonkar

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041

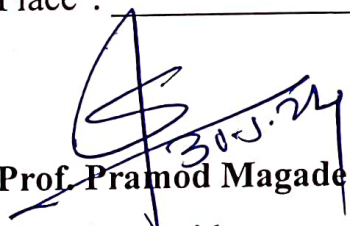


CERTIFICATE

This is to certify that *Mr. (Tejas Shinde, Onkar Sapkal, Ms. Tanaya Hagawane, Sukeshini Kedari)*, has successfully completed the Project Stage-II entitled “*(Development of semi-automated hydraulic murukku's making machine)*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/24

Place : _____


Prof. Pramod Magade

Project Guide


Prof. A. V. Karande

Project Coordinator

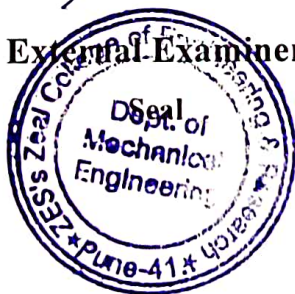

Prof. S. M. Godase

Head of Department


Dr. A. M. Kate

Principal


External Examiner





Applied Hydraulics & EDUCATIONAL

Educational Trainers & Mfg. Of Hydraulic Cylinders & Power Pack, Precision Engg. Works

Works : Sr. No. 37/2, Bhadavale Vasti, Opp. Anant Industrial Estate, Dhayari Narhe Road, Narhe, Pune - 411 041.
E-mail : info.appliedhydraulics@gmail.com appliedhydraulic@rediffmail.com

Ref.:

Date :

To Whomsoever It May Concern

This is to certified that Mr.Tejas shinde, Mr.onkar sapkal, Ms.Tanaya Hagawane, Ms. Sukeshini Kedari students of final year BE Mechanical engineering at **Zeal college and engineering research** Pune have carried out the project entitled **Semi- Automated Hydraulic Murukku's Making Machine**.

This project has been conducted manufacturing plant of **Aplied Hydraulics,Narhe industrial Area,Pune – 411041**. The observations recorded and calculation scared out by them have been verified and found correct for the it is being started that manufacturing plant is in the process of implementing they are suggestions on energy conservation.

The conduct of this student during the tenure all the project works observed to be sincere effort taking and responsible. We extend our best wishes for their prosperous career and future ahead. This certificate is being issue to them for their reference, record and academic use.

Authorised signatory,

For Applied hydraulics and educational



Zeal Education Society's

Zeal College of Engineering and Research

Narhe, Pune -411041

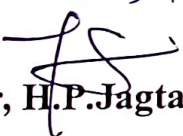


CERTIFICATE

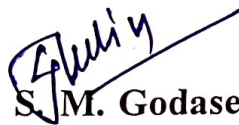
This is to certify that *Mr. Sahib Singh Rattan, Mr. Prajnesh Umesh Poonja, Mr. Pradumn Roy, Mr. Gaurav Raju Ghodke* has successfully completed the Project Stage – II entitled “**Modification and Development of Shock Absorber Test Rig**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.


Date: 30/05/2024

Place: Narhe, Pune


Prof. Dr. H.P. Jagtap
Project Guide


Prof. A.V. Karande
Project Coordinator


Prof. S.M. Godase
Head of Department


Dr. A.M. Kate
Principal


External Examiner



ZES's Zeal College of Engineering and Research, B.E (Mechanical)

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Vaibhav P. Pujare, Mr. Prathmesh B. Poman, Mr. Rohit D. Dhamale, Mr. Siddharth S. Prajapati*, has successfully completed the Project Stage – II entitled “*Design of powertrain for electric Scooter*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : // 30/05/24

Place : Pune

V. C. Shinde

Prof. V. C. Shinde

Project Guide

V. A. Karande

Prof. V.A. Karande

Project Coordinator

S. M. Godase

Prof. S. M. Godase

Head of Department

A. M. Kate

Dr. A. M. Kate

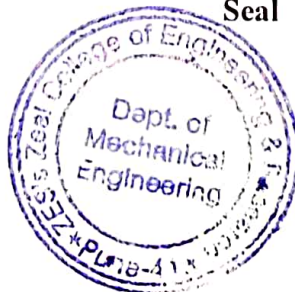
Principal

[Signature]

External Examiner

Seal

Dr. N. S. KANWAR





CERTIFICATE

This is to certify that, the project work titled: "DESIGN OF POWERTRAIN IN ELECTRIC SCOOTER" is bonafide work carried out by **Mr. Vaibhav P. Pujare, Mr. Prathmesh b. Poman, Mr. Rohit D. Dhamale and Mr. Siddharth S. Prajapati** student for the Graduateship Examination of the, under my guidance and direction.

A handwritten signature in black ink, appearing to be 'Vaibhav Kshirsagar', is written over a horizontal line.

Signature of the Guide:

Name: Mr. Vaibhav Kshirsagar

Address- Plot No. 122, Tiny co-operative Industrial Estate, Undri-Pisoli Road,
Pune - 411048

Place: Pune

Date: 14 March 2024

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Ms. Sneha S. Gurav* „*Ms. Aasawari M. Mahagaovnkarn* , *Mr .Sambhaji R. Ingale*, *Mr. Omkar S. Pawar* has successfully completed the Project Stage – II entitled “**IoT-Enabled Solar Panel Cleaning System** ” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 29/5/24

Place : Pune



Prof. S. H. Gujar

Project Guide



Prof. A. V. Karande

Project Coordinator


Prof. S. M. Godase

Head of Department



Dr. A. M. Kate

Principal



External Examiner



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041




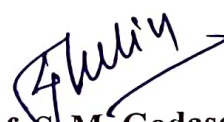
CERTIFICATE


This is to certify that *Mr. Mahesh Zirpe, Suyash Kadu, Atharva Thopate, Ganesh Sogam* have successfully completed Project Stage – II entitled “**To Design & Manufacture of Adaptive Cruise Control for Two Wheeler**” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.


Date :30/5/2024

Place : Narhe, Pune-41


Prof. V. A. Randive
Project Guide


Prof. S. M. Godase
Head of Department


Prof. A. V. Karande
Project Coordinator


Dr. A. M. Kate
Principal




Dr. N. S. Kanekar

Design Analysis and Development of Twin shredder machine for electronic waste items

Zeal Education Society's
Zeal College of Engineering and
Research Narhe, Pune -411041




CERTIFICATE

This is to certify that Mr. Omkar N Nanaware, Mr. Manjush P Nikam, Mr. Abhishek D Shinde, Mrs. Harshada A Khade has successfully completed the Project Stage – II entitled “Design Analysis and Development of Twin shredder machine for electronic waste items” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date: 29/5/24

Place: Pune (Narhe)

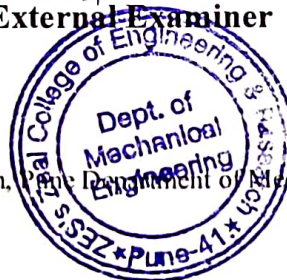

Prof. S. M. Godase
Project Guide


Prof. S. M. Godase
Head of Department


Prof. A.V Karande
Project Coordinator


Dr. A. M. Kate
Principal


External Examiner



Zeal college of engineering and research, Pune Department of Mechanical Engineering



Mechatol Product Engineering Solutions Pvt Ltd

OFFICE ADDRESS

KETAN PARK, SECOND FLOOR, OPPOSITE TO SURAJ NAGAR NEAR GURUGANESH NAGAR SHANTIBAN
CHOWK
KOTHRUD, PUNE -411038

April 29, 2024

SPONSORED PROJECT COMPLETION LETTER

To

Whomsoever It May Concern

This is to inform that following students have successfully completed their industrial project in the name of "Design Analysis and Development of Twin shredder Machine for electronic waste items." In the academic year 2023-2024 with Mechatol Product Engineering Solutions Pvt Ltd, Pune

College Name: Zeal College of Engineering and Research, Narhe

Candidates Name:

- 1) Omkar N Nanaware
- 2) Manjush P Nikam
- 3) Abhishek D Shinde
- 4) Harshada A Khade

During their tenure we found above students reliable and responsible
We wish them success in all their future endeavours.

Mr. Anand Bhise
Director
Mechatol Product Engineering Solutions Pvt Ltd
Pune, India

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE


This is to certify that *Mr. Rushikesh B. Kolte, Mr. Kunal G. Kongari, Mr. Soham D. Kumbhar, Mr. Omkar A. Patil*, has successfully completed the Project Stage – II entitled “*Testing and Analysis of Polymer Matrix Composite material using Jute and glass as fiber material for Prosthetic Leg Socket*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/2024


Place : Pune.


Prof. Dipak Wagh

Project Guide



Prof. S. M. Godase
Head of Department


Prof. A. V. Karande
Project Coordinator


Dr. A. M. Kate
Principal


External Examiner




Dr. N. S. Katar

Zeal College of Engineering and Research
Narhe, Pune -411041




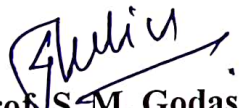
CERTIFICATE

This is to certify that *Mr. Bharat Navnat Mahajan, Mr. Onkar Shrikant Kshirsagar, Mr. Ganesh Ramchandra Thite*, has successfully completed the Project Stage – I entitled *Design, Analysis And Manufacturing Of Automated Precision Drilling Machine* under my supervision, in the partial fulfilment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

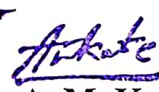
Date : 30/05/2024

Place : Narhe pune


Prof. V.P. Jagtap
Project Guide


Prof. S.M. Godase
Head of Department


Prof. A. V. Karande
Project Coordinator


Dr. A. M. Kate
Principal





॥ वस्तुने प्रगतिशील ॥

HIRA AUTOMATION PVT. LTD.

COMPLETE ENGINEERING SOLUTIONS

Date: 24 April 2024

This is to certify that:

Mr. Bharat Navnath Mahajan

Mr. Onkar Shrikant Kshirsagar

Mr. Thit Ganesh Ramchandra

(BE - Mechanical Department)

Zeal college and engineering research, Pune

Sub: Sponsorship Letter

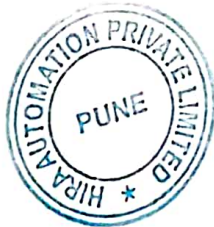
Have successfully completed the Sponsorship Project on Automated Precision Drilling Machine at Hira Automation Pvt. Ltd., Sr.No.60/1, Jambhulwadi Rd, Opp. Viva Sarovar, Siddhivinayak Society, Pune, Maharashtra 411046 Company. Their dedication, hard work, and innovative contributions have significantly contributed to the successful implementation of this project.

We commend their commitment to excellence and commendable teamwork throughout the duration of this project. May this achievement be a steppingstone to further success in their academic and professional pursuits.

Thanks & Regards,

Mr. Indrajit Gaikwad

(Director)



Signature

Email : sales@hiraautomation.com

Hira Automation Pvt. Ltd.

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune-411041



CERTIFICATE

This is to certify that *Mr. Makarand Vijay Mane, Mr. Nagesh Dattatray Mali, Mr. Pavan Sambhaji Mandavkar, Mr. Rushikesh Mahesh Mane* have successfully completed the Project Stage – II entitled “*Design and Manufacturing of Automated Vertical Storage System for Industry*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

Place : Pune


Prof. L. B. Mali

Project Guide


Prof. S. M. Godase

Head of Department



Prof. A. V. Karande

Project Coordinator


Dr. A. M. Kate

Principal


External Examiner


Dr. N. S. Kulkarni



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune – 411041



CERTIFICATE

This is to certify that **Mr. Zade Pritesh Prasad, Mr. Todkar Atharva Deepak, Mr. Patankar Ayush Ashish, Mr. Thakur Neeraj Satyanarayan** have successfully completed Project work entitled **"Automatic Measurement of Payload for prevention of Overloading in Heavy Vehicles"** under my supervision, in the partial fulfillment of Bachelor's degree in Mechanical Engineering of the Savitribai Phule Pune University.

Date:

Place


Prof. S. S. Borade

Guide


External Examiner


Prof. S. M. Godase

Head of the Department


Dr. A. M. Kate

Principal, ZCOER



Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Chaudhari Prajwal, Miss. Kalambe Madhura and Miss. Shinde Aditi* has successfully completed the Project Stage – II entitled “*Automated Quality Inspection Machine Using Computer Vision*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of the University of Pune.

Date: 30th May '24

Place: Pune

Prof. N.B. Surwase
Project Guide

Prof. A.V. Karande
Project Coordinator

Prof. S. M. Godase
Head of Department

Dr. A.M. Kate
Principal

External Examiner



Zeal College of Engineering and Research

Narhe, Pune-411041



CERTIFICATE

This is to certify that *Mr. Sonavane Raviraj Bhatu, Mr. Sonavane Rohit Shukleshwar, Mr. Kagwade Anant kumar*, have successfully completed the Project Stage – II entitled “*Thermoelectric Generation and Thermoelectric Cooling Battery Cooling System*” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/05/2024

Place : Pune


Prof. U.K. Gadpayle

Project Guide


Prof. A. V. Karande

Project Coordinator


Prof. S. M. Godase

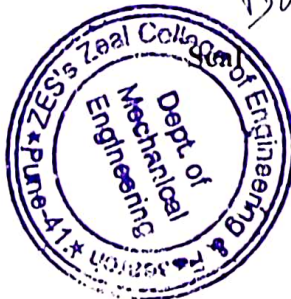
Head of Department


Dr. A. M. Kate

Principal


External Examiner


Dr. N. S. Kulkarni





THE WORLD'S
FAVOURITE
INDIAN

Date: 10/04/2024

To,

The Department of Mechanical Engineering,
Zeal College of Engineering, and Research Pune.

Sub.: Completion & Validation of Project Work for Final year Project (Mechanical Engg.)

Respected Sir,

This is to certify that **Sonawane Rohit Shukleshwar, Sonawane Raviraj Bhatu & Kagwade Anant Kumar**. BE (Mechanical Engineering) Student from ZEAL College Of Engineering Pune have completed the project work entitled "**Thermoelectric Generation and Thermoelectric Cooling Battery Cooling System**" Used For battery cooling effect on electrical vehicles. in our company from 10th October 2023 to 05th April 2024 as part of their curriculum under our supervision, in the partial fulfilment of Bachelor of Engineering in Mechanical Engineering of University Of Pune.

We have noticed that, during the period, they have shown keen interest in their assigned work and were also regular in attendance. The data provided for the project by the students is satisfactory. This project is completed and validated by our engineer with the students successfully.

Thanks and Regards,

Mr. Vitthal Kakade
(Mgr - Vehicle Assly)
For Bajaj Auto Limited
Authorised Signatory Authorised
Vide Resolution dtd.25.01.2023

Mr. Vitthal Kakade

(MANAGER)

Bajaj Auto Limited Chakan, Pune

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that *Mr. Akash Bhingare*, has successfully completed the Project Stage – II entitled “Effect of silica addition on Mechanical Behaviour of Tyre Material” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of Savitribai Phule University of Pune.

Date : ~~24~~ 30-5-24

Place : _____



24/05/24

Dr. P.P. Ritapure

Project Guide


Prof. S. M. Godase

Head of Department




Prof. A.V. Karande

Project Coordinator

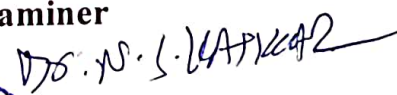


Dr. A.M. Kate

Principal


External Examiner




Dr. N. S. DAPKAR

Zeal Education Society's
Zeal College of Engineering and Research
Narhe, Pune -411041



CERTIFICATE

This is to certify that Shubham Ekawade, Prajwal Patil, Rushikesh Gavali, Shreenarayan Sutar, has successfully completed the Project Stage – II entitled “Design analysis & Development of Slat Conveyor” under my supervision, in the partial fulfillment of Bachelor of Engineering - Mechanical Engineering of University of Pune.

Date : 30/5/24

Place : Pune


Prof. S.M. Godase

Project Guide


Prof. S. M. Godase

Head of Department


Prof. A. V. Karande

Project Coordinator


Dr. A. M. Kate

Principal


External Examiner

