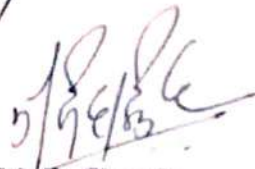


CERTIFICATE

This is to certify that, the dissertation entitled "Heat Transfer Augmentation In Tube In Tube Type Heat Exchanger Using Wire Coil Insert", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering' of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Amit Suresh Waghode' under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this any other diploma/examination body or university to the best of knowledge and belief.

Place: Aurangabad

Date: 20/7/17



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Department of Mechanical Engineering



Prof. G. S. Dhage

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20.7.17

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CERTIFICATE

This is to certify that, the Dissertation report entitled
“Experimental Investigation of Heat Transfer Enhancement
through Elliptical Dimples for Divergent Channel”

Submitted by

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Has completed as per the requirement of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State in partial fulfillment for the award of ‘Master of Engineering’ in ‘Mechanical Engineering’. The work embodied in the dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this any other diploma/examination body or university to the best of knowledge and belief.

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This is to certify that the dissertation report Entitled
“Experimental Investigation of Heat transfer enhancement
through Curved Delta Wing Vortex Generator”

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CERTIFICATE

This is to certify that, the dissertation entitled “**Effect Of TIG and SMAW For Strength Analysis**”, which is being submitted herewith for the award of the ‘**Master of Engineering**’ in ‘**Mechanical Engineering**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by ‘**Mr. Kailas Annasaheb Gite** under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this any other diploma/examination body or university to the best of knowledge and belief.

Place: Aurangabad

Date: 15/2/2018



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CERTIFICATE

This is to certify that, the dissertation entitled “Comparative Numerical Analysis of Thermal System with Sintered Copper Powder Wick Heat Pipe by using Water & Al₂O₃ Nanofluid as Coolant through Hybrid Vortex Al Plate”, which is being submitted herewith for the award of the ‘Master of Engineering’ in ‘Mechanical Engineering– Heat Power’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by ‘Miss. Punam Madhukar Sonawane’ under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this any other diploma/examination body or university to the best of knowledge and belief.

Place: Aurangabad

Date: 14/7/17


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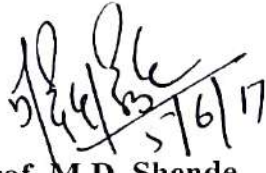
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CERTIFICATE

This is to certify that, the dissertation entitled “**Enhancement of Aerodynamic Drag Reduction for Sedan Based Passenger Car Model Using Add on Device**”, which is being submitted herewith for the award of the ‘**Master of Engineering**’ in ‘**Mechanical Engineering– Heat Power**’ of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by ‘**Mr. Shinde Shivaji Sanjiv**’ under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this any other diploma/examination body or university to the best of knowledge and belief.

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CERTIFICATE

This is to certify that, the dissertation entitled "heat transfer enhancement in double pipe heat exchanger using twisted tape", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering – Heat Power' of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Swapnil Chandrashekhar Karwande' under my supervision and guidance. The work embodied in this dissertation has not formed earlier for the basis of the award of any degree or compatible certificate or similar title of this any other diploma/examination body or university to the best of knowledge and belief.

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This is to certify that the dissertation I report entitled
**“Thermal Performance & Experimental Investigation of Heat
Sink used for Power Electronic Applications”**


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[2017-18]



CERTIFICATE

This is to certify that the Dissertation entitled

“ENHANCEMENT OF MECHANICAL PROPERTIES OF COMPOSITE MATERIALS IN BRAKE PAD APPLICATION”

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This is to certify that the dissertation I report entitled
**“OPTIMIZATION OF PROCESS PARAMETERS AFFECTING
ON SPRING-
BACK IN V-BENDING PROCESS FOR DEEP DRAW STEEL
HSLA 420 STEEL USING FEA AND TAGUCHI TECHNIQUE”**

Submitted by
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Place: Aurangabad

Date: 25/06/2018

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This is to certify that **Mr. Nikhil B. Metange** has successfully completed the Dissertation entitled "**Experimental Investigation of Rotary Tiller Blades for Performance Analysis**" under my supervision, in the partial fulfilment of **Master of Engineering (Mechanical)** of **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.**

Date : 7/06/2018

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ACADEMIC DEPARTMENT



This is to certify that the dissertation I report entitled
**“Optimum Design & Analysis of Corrugated Sheet Box Size
for an Industrial Application”**

Submitted by
Sagar Garje

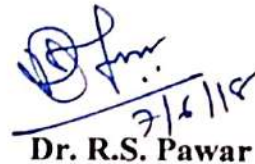
Has completed as per the requirement of Dr. Babasaheb Ambedkar Marathwada University in partial fulfillment for the award of **Master of Engineering (Mechanical Engineering)** of Dr. Babasaheb Ambedkar University Aurangabad (M.S).

Date: 7/6/2019

Place: Aurangabad


07/06/19

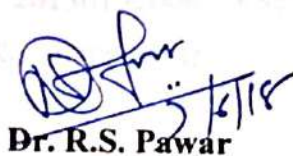
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CERTIFICATE

This is to certify that the dissertation- II report entitled
**“Experimental Investigation of Heat Transfer Enhancement in Shell
and Tube Heat Exchangers Using Al_2O_3 /water and CuO/water
Nanofluid”**

Submitted by

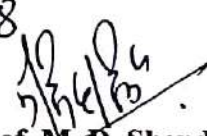
Mr. Sakharam A. Shimple

Seat Number:[9D0000147]


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[2017-18]




This is to certify that the dissertation I report entitled
**“COMPUTER AIDED ANALYSIS OF PRESS TOOL TO
IMPROVE TOLERANCE ALLOCATION & PROCESS
CONTROL”**

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SUBODH KUMAR

Has completed as per the requirement of Dr. Babasaheb Ambedkar Marathwada University in partial fulfillment for the award of **Master of Engineering (Mechanical Engineering)** of Dr. Babasaheb Ambedkar University Aurangabad (M.S).


Place: Aurangabad

Date: 26/06/2018


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CERTIFICATE

This is to certify that the Dissertation entitled
**“THERMAL ANALYSIS OF CYLINDRICAL ROLLER BEARING WITH
CHANGE IN ROLLER MATERIAL (SILICON CARBIDE AND STEEL)”**

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SUBODH CHHOTU PAWAR

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For the academic year 2017-2018

Prof. M. D. SHENDE

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YEAR 2017-2018

