This is to certify that, the dissertation entitled "Solar Power Adsorption Refrigeration System", 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. Avinash Vitthal Kanade' 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: 23 | 06 | 2015

Prof. A.V. Kulkarni

Guide

Department of Mechanical Engineering

Prof. A.V. Kulkarni

Head

Department of Mechanical Engineering

Dr. R. S. Pawar

This is to certify that, the dissertation entitled "Design and Finite Element Analysis of Guide Pillar for Compound Press Tool", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering — Design' of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Bapu Ambadas Dherange 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: 20/01/2016

Prof. M. D. Shende

Guide

Department of Mechanical Engineering

Prof. V. W. Patil

Head

Department of Mechanical Engineering

Dr. R. S. Pawar

Principal

Shreeyash College of Engineering and Technology

Aurangabad

This is to certify that, the dissertation entitled "Experimental Investigation of the Suitability of Orange peel oil as a Blend with Cottonseed Oil as Alternate Fuel for Diesel Engines, which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering- Heat Power' of Dr.Babasaheb Abedkar Marathwada University, Aurangabad, Maharashtra State. This is the result 'Miss.Jyoti Madhav of the original research work and contribution by embodied under supervision The work and guidance. dissertation has not formed earlier for the basis of the award of any certificate or similar title of this any other compatible diploma/examination body or university to the best of knowledge and belief.

Place: Aurangabad

Date: 10/01/2.016

Prof. A.V. Kulkarni

Guide

Department of Mechanical Engineering

Prof. A.V. Kulkarni

Head

Department of Mechanical Engineering

Dr. R. S. Pawar

This is to certify that, the dissertation entitled "Performance Analysis and Investigation of Emissions of C.I. Engine Using Biodicsel and its Blends", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering— Heat Power' of Dr. Babasaheb Abedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Naik Ganesh Gorakh' 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: 14/12/15

Prof. A.V. Kulkarni

Guide

Department of Mechanical Engineering

Prof. A.V. Kulkarni

Head

Department of Mechanical Engineering

Dr. R. S. Pawar

Principal
Shreeyash College of Engineering and Technology

Aurangabad

This is to certify that, the dissertation entitled "Determination of the Temperature Distribution of CNT Coated Perforated Fin under Natural Convection", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering - Heat Power' of Dr. Babasaheb Ambedkar Marathwada Unversity, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Karansingh Amarsingh Rajput' 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: 26 | 09 | 2015

Guide

Department of Mechanical Engineering

Head

Department of Mechanical Engineering

This is to certify that, the dissertation entitled "Performance Analysis and Investigation of Emissions of C.I. Engine Using Biodiesel as Blending Agent", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering— Heat Power' of Dr.Babasaheb Abedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Santoshkumar Dnyaneshwar Bhopale 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: 26 | 09 | 2015

Prof. A.V. Kulkarni

. Guide

Department of Mechanical Engineering

Prof. A.V. Kulkarni

Head

Department of Mechanical Engineering

Principal

Shreeyash College of Engineering and Technology

Aurangabad

This is to certify that, the dissertation entitled "Experimental Analysis of Convective Heat Transfer in Divergent Channel", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering- Heat Power' of Dr. Babasaheb Abedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Avinash Shesherao Patil 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: 06/04/2016

Dr. R. S. Pawar

Guide
Department of Mechanical Engineering

Prof. V.W. Patil

Head
Department of Mechanical Engineering

Dr. R. S. Pawar

This is to certify that, the dissertation entitled "Numerical and experimental investigation of staggered interrupted fin arrangement in a natural convection field", which is being submitted herewith for the award of the 'Master of Engineering' in 'Mechanical Engineering— Heat Power' of Dr. Babasaheb Abedkar Marathwada University, Aurangabad, Maharashtra State. This is the result of the original research work and contribution by 'Mr. Bhushan Sopan Rane' 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: 6/4/2016

Prof. M.D. Shende

Guide

Department of Mechanical Engineering

Prof. V.W. Patil

Head

Department of Mechanical Engineering

Dr. R. S. Pawar