

## Department of Mechanical Engineering

### PhD Completed Student List

Sr. No.	Name of Student	Name Of Guide	Completed Year	Title Of The Thesis
1	Mr. H.J.Shukla	Dr. R. C.Patel	31-03-1989	Free convection in rectangular enclosures
2	Mr. J.I.Nanavati	DR. A.S.Fadke	31-12-1993	Theoretical prediction of thermal level of a two bearing assembly of hydraulic machines
3	Mr. C. D. Sankhavara	Dr. H.J.Shukla	21-05-2007	Study of free convection in rectangular enclosures with partition
4	Mr. A.R.Nagera	Dr. P.Prabhakaran	31-03-2008	Theoretical and experimental studies of steady state radiant heat energy transfer from a solid metal radiator to a surrounding stagnant air atmosphere
5	Mr. Duraid F. Maki	Dr. P.Prabhakaran	18-11-2010	An Investigation On Thermal Performance And Pollutants Emissions of Diesel Engine Operated With Hydrogen Blended Fuel
6	Mr. Niraj K. Chavada	Dr. P.Prabhakaran	2011	Synthesis and optimization of a thermal system network in a chemical plant using genetic algorithms
7	Mr. Vijaykumar K. Matawala	Dr. P.Prabhakaran	2012	Exergoeconomic optimization of an industrial aqua ammonia vapour absorption refrigeration unit
8	Mr. H.K.Amaranath	Dr. P.Prabhakaran	Apr-2012	An investigation on the performance of a direct injection diesel engine using Esterifies Oils Biodiesels as fuel
9	Mr. Arvind S. Mohite	Dr.J.I.Nanavati	31-10-2013	Investigations of the flow in a blower volute casing
10	Mr. Ashwin J Makadia	Dr.J.I.Nanavati	30-06-2014	Investigation on turning center using RSM
11	Mr. L.V.Kamble	Dr. P. Brahmankar & Dr. S.N Soman	2017	Study of Effect of design & process parameters on aluminium welds made by friction stir welding
12	Mr. Ekbote Milind Arun	Dr. P.Prabhakaran	Oct-2017	Discharges through multiple small branches mounted on a circular surface from stratified flow in horizontal pipe
13	Mr. Georgy Powathilath Kurion	Dr. M.N.Qureshi	19-06-2018	Study and Development of Models for Supply Chain Performance Measurement in Select Industries
14	Mr. Vijay Parmar	Dr. Piyush Gohil	22-09-2020	Investigation on Mechanical and Thermal behaviour of fiber reinforced polymer composites
15	Mrs. Alpa Bhatt	Dr. Piyush Gohil	20-07-2021	Investigation of Process paramotors in vacuum assisted Resin Transfer Molding for Development of Fiber Reinforced Composite.

### PhD Ongoing Student List (Old Scheme)

<b>SR. NO.</b>	<b>NAME OF STUDENT</b>	<b>NAME OF GUIDE</b>	<b>Registration Number</b>	<b>DATE OF REGISTRATION</b>	<b>Ph.D. TITLE</b>
1	Ms. Niyati Moulinkumar Shah	Dr. Jignesh Mehta	FOTE/894	02-01-2016	Heat and mass transfer studies of an internally cooled contacting device used in liquid desiccant based air conditioning system
2	Mr. Shailesh M Gandhi	Dr. Jignesh Mehta	FOTE/919	29/10/2016	Investigations on Passive Solar Liquid Desiccant Regenerator
3	Ms. Sonal Bhojani	Dr. Dharmendra Sharma	FOTE/931	04-04-2017	Some Investigations on the Structural Dynamics of MEMS Components
4	Ms. Soni Sheetal Sujaykumar	Dr. Piyush Gohil	FOTE/944	30/06/2017	Development, Characterization And Machinability, assessment Of Al Based Metal Matrix Composite
5	Mr. Patel Piyushbhai Thakorbbhai	Dr. Piyush Gohil	FOTE/982	24/01/2019	Investigations On Prosthetics/Orthotics Elements Developed From Polymers And Its Composites
6	Mr. Solanki Dhavalkumar Tribhovanbbhai	Dr. Dharmendra Sharma	FOTE/988	19-03-2019	Flow Induced Vibration of Single and Multiple Cylinders
7	Mr. Mihir Tadavi	Dr. Jagdish Prajapati	FOTE/850	14-08-2014	Machinability Investigation of Metal Matrix Composite using USM

**Department of Mechanical Engineering**  
**PhD Ongoing Student List (New Scheme)**

<b>Sr. No.</b>	<b>Name of Student</b>	<b>Name Of Guide</b>	<b>Registration Number</b>	<b>Date Of Registration</b>	<b>Ph.D. Title</b>
1	Mr. Gupta Ravindra Mohanlal	Dr. Arvind Mohite	FOTE/1030	05/11/2020	Investigation of Heat transfer Enhancement using Hybrid Passive Techniques
2	Mr. Vineet Kumar Saxena	Dr. Akash Pandey	FOTE/1024	18/02/2020	Developing Predictive Maintenance Strategy for an Organization under Industry 4.0 Environment
3	Mr. Goyal Bhupesh Vishnukumar	Dr. Akash Pandey	FOTE/1023	18/02/2020	Investigation of Metal foam Casting using Solid Space Holder
4	Mr. Bambhania Mehul Pravinbhai	Dr. Nikul Patel	FOTE/1066	06/05/2021	Numerical Investigation of Cavitation Phenomena and its effect on spray characteristics in fuel injector by Using Bio-diesel as a Fuel
5	Mr. Patel Dhirenkumar Piyushkumar	Dr. Akash Pandey	FOTE/1072	21/06/2021	Development and Parametric Investigation of Powder Bed Fusion Additive Manufacturing Process Using Concentrated Solar Beam.
6	Mr. Patel Jay Indravadan	Dr. Amit Patel	FOTE/1071	22/06/2021	Studies on operation of large scale solar furnaces using heliostat reflectors and its thermal performance
7	Mr. Bhavesh Pathak	Dr. Nikul Patel	FOTE/1075	27/06/2021	Design and Development of Combustion Chamber Geometry for Using Bio-Diesel as a Fuel in 1.C.Engine
8	Mr. Shekh Asfakahmed	Dr. Nikul Patel	FOTE/1074	27/06/2021	Development of Technique to Mitigate Nox for an Engine using Bio-diesel as a Fuel
9	Mr. Manish Maisuria	Dr. Amit Patel	FOTE/1069	15/06/2021	Studies on Performance Characteristic of Micro Hydro Turbine (MHT) and Performance Improvement for the Flow of Water Through open Canal
10	Mr. Sojitra Milan Laljibhai	Dr. Jignesh Mehta	FOTE/1070	15/06/2021	Waste Engine oil based nanofluid preparation and its testing in various solar thermal system
11	Ms. Suruchi Sharma	Dr. Jignesh Mehta	FOTE/1067	15/06/2021	Investigation on Solar Bubble Column Liquid Desiccant Regenerator

12	Mr. Kapil Mandloi	Dr. Dharmendra Sharma	FOTE/1077	07/03/2021	Synthesis and Characterization of Wheat Straw Based Green Composite Material
13	Mr. Chaudari Ashishkumar Babubhai	Dr. Piyush Gohil	FOTE/1088	26/11/2021	Experimental investigation on high speed drilling of Fiber reinforced composites (HSD-FRC)
14	Mr. Jani Deepakkumar Shivshankar	Dr. Nikul Patel	FOTE/1096	21/01/2022	Development of a biodiesel production skid to be utilized for small scale production
15	Ms. Deepa Akash Pandey	Dr. Mayur Kevat	FOTE/1093	21/01/2022	Experimental investigation on Macro-Encapsulation of Bio-PCM & its application in enhancing effectiveness of Solar still
16	Mr. Ratnesh T Parmar	Dr. Mayur Kevat	FOTE/1095	21/01/2022	Simulation of Oxy-fuel combustion in circulating fluidized bed
17	Mr. Guru Bachan Satsangi	Dr Amit Patel	FOTE/1111	06/08/2022	Studies on the performance of intermediate pyrolyser using pellets of different agriculture residue and characterisation