

BIO DATA

Name :- Dr. RATHOD VIKRAM PARSOTTAMBHAI

Address :- Renewable and Sustainable Energy Laboratory,

Mechanical Engineering Department,

Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat.



Position :- Assistant Professor

Date of Joining Institute : 14-05-2009

Date of Joining Present Position: 14-05-2009

Date/ year of Ph.D. degree: 2019

Qualification:

Degree	University	Year	Specialization
B.E	South Gujarat University, S.V.R.C.E.T.	2000	Mechanical Engineering
M.E	S.V.N.I.T, Surat	2003	Mechanical- Turbomachines
Ph.D	S.V.N.I.T, Surat	2019	Mechanical Engineering

Experience : 11 Years

University / College	Designation	Period
C.K. Pithawala college of Engg & Tech., Surat	Lecturer	3 years
S.V.N.I.T., Surat	Assistant Professor	10 years

Research Publication :

(No. of Research Publication Since Joining – Please attach list of Publications)

Publication	Numbers
National Conference	6
National Journal	
International Conference	3
International Journal	4

No. of M. Tech. / with details (Please attach list of Dissertation/ Thesis) : 19

Title of the M. Tech Dissertation guided:

Sr. No.	Name of the student	Title	Year
1.	Mr. DHAMESHWAR SAH	“DESIGN AND COMPUTATIONAL FLUID DYNAMICS (CFD) ANALYSIS OF UPWIND HORIZONTAL AXIS WIND TURBINE”	2011
2.	Mr. PARAMVIR GULIA	“ DESIGN AND PERFORMANCE OF SOLAR PARABOLIC DISH TYPE COLLECTOR”	2011
3.	Mr. HARDIK N. RABARI	“DETERMINATION OF ACTUATION FORCES REQUIRED TO DRIVE THE SPEAR OF PELTON TURBINE USING CFD”	2011
4.	Mr. BHAVIN N. RANA	“SOLAR ADSORPTION REFERIGERATION SYSTEM”	2011
5.	Mr. SALIL HARRIS	“REDESIGN AND CFD ANALYSIS OF A MIXED FLOW COMPRESSOR”	2011
6.	Mr. MAITRIK SHAH	“FLOW PATH ANALYSIS OF AN IP STAGE OF SUPERCRITICAL STEAM TURBINE BY COMPUTATIONAL FLUID DYNAMICS (CFD) TECHNIQUE”	2012
7.	Mr. BRIJESH NAIK	“VIBRATION ANALYSIS OF HYDRAULIC TURBINE TEST RIG”	2012
8.	Mr. BELADIYA BHARATHKUMAR B	“DESIGN DEVELOPMENT AND ANALYSIS OF SOLAR PARABOLIC TROUGH COLLECTOR”	2014
9.	Mr. PRATIK N. CHAUDHRI	“DESIGN AND THERMAL ANALYSIS OF CENTRIFUGAL COMPRESSOR”	2014
10.	Mr. KESHAR PATEL	“DESIGN AND THERMAL ANALYSIS OF AXIAL FLOW COMPRESSOR”	2014
11.	Mr. VIKAS KUMAR	“DESIGN AND THERMAL ANALYSIS OF AXIAL FLOW TURBINE”	2014
12.	Mr. TEJARAM SAINI	DESIGN AND CFD BASED ANALYSIS OF CENTRIFUGAL PUMP IMPELLER	2015
13.	Mr. HIMANSH VISHWAKARMA	DESIGN AND NUMERICAL ANALYSIS OF A CENTRIFUGAL COMPRESSOR THROUGH A COMMERCIAL SOFTWARE	2016
14.	Mr. NIRAV SAVALIYA	GENERAL EQUATION FOR PREDICTION OF SOLAR RADIATION WORLDWIDE WITH CFD ANALYSIS AND EXPERIMENTAL STUDIES ON CYLINDRICAL PARABOLIC SOLAR TROUGH COLLECTOR	2017
15.	Mr. LAL SINGH RAIPURIYA	DESIGN AND PERFORMANCE ANALYSIS OF AXIAL FLOW TURBINE USING COMMERCIAL SOFTWARE	2018
16.	Mr. MONUKUMAR MOGRA	EXPERIMENTAL INVESTIGATION ON CFD SIMULATION OF DIRECT SOLAR DRYER FOR FRUITS, VEGETABLES AND BIO PRODUCTS	2018

17.	Mr. PATEL MAYUR KUMAR L	DESIGN AND DEVELOPMENT AND ANALYSIS OF RADIAL FLOW TURBINE	2015
18.	Mr. PIWAL AMOL PAWAN	PERFORMANCE PREDICTION OF DARRIEUS TURBINE FOR HYDRODYNAMIC APPLICATION	2018
19.	Mr. VIKAS	BIO FUEL PELLETIZATION OF DIFFERENT BIOMASS AND ITS APPLICATION	2018

PUBLICATIONS:

International Journal

Sr.No	Title	Journal	Year
1	Vikram Rathod, Purnanand V. Bhale, "Experimental Investigation on Biogas Reforming for Syngas Production over an Alumina Based Nickel Catalyst".	Energy Procedia , Elsevier, Vol 54, 2014, 256-265.	2014
2	Vikram Rathod, Purnanand V. Bhale, "Analytical and Experimental analysis for Dry Reforming and Partial Oxidation of Biogas".	Presented in Applied Energy conference at Abu Dhabi on 28-31 March 2015. Organize by Applied Energy , Elsevier	2015
3	Vikram P Rathod, Purnanand V. Bhale, Experimental Investigation on Biogas Reforming to Hydrogen rich Syngas Production using Solar Energy.	International Journal of Hydrogen Energy , Elsevier.	2015
4	Vikram P Rathod, Purnanand V. Bhale, Biogas Production from Water Hyacinth in the Batch type Anaerobic Digester.	Materials Today Proceedings , Vol 5, Issue 11, Part 2	2018

International Conference

Sr.No	Title	Conference	Year
1	Vikram P Rathod, Purnanand V. Bhale, Biogas Production from Water Hyacinth in the Batch type	Presented in International Conference on Advances on Energy and Research, Energy Science Department,	2015

	Anaerobic Digester.	Indian Institute of Technology, Bombay. 14 - 17 December 2015.	
2	Rathod V. P ¹ , Ratnadhariya J. K. ² and Channiwala S. A. ³ , “Design and development of downdraft venturi type gasifier”	International Conference on Mechanical Engineering, DHAKA, Bangladesh	2003
3	Vikas Kumar, Vikram P Rathod, “Blade Stresses And CFD Analysis of Axial Gas Turbine”	International Mechanical Engineering Congress, 2014 (IMEC 2014), Tiruchirappalli. I June 13-15, 2014	2014

National conference

Sr. No	Title	Conference/Journal	Year
1	Rathod Vikram P, “Experimental investigation on solar paraboloidal collector with different shapes of receivers”	National Conference on Thermal Fluid and Manufacturing science, CKPCET & Institute of Engineers	2012
2	Maitrik Shah, Rathod Vikram P, “Flow path analysis of an ip stage of supercritical steam turbine by computational fluid dynamics (CFD) technique”	Thirty Ninth National Conference on Fluid Mechanics and Fluid Power December 13-15, 2012, SVNIT Surat, Gujarat, India FMFP (26)	2012
3.	Vikas kumar, keshar Patel, Vikram P Rathod, CFD Analysis and design of axial flow turbine with AxSTREAM	National Level Industry-Institute Symposium on Turbomachines during April 5-6, 2014(NIST-2014), NIT Allahabad.	2014
4.	Keshar Patel, Vikas kumar, Vikram P Rathod, Blade design and simulation of axial compressor with AxSTREAM	National Level Industry-Institute Symposium on Turbomachines during April 5-6, 2014(NIST-2014), NIT Allahabad.	2014
5.	Pratik Chaudhri, Vikas Kumar, Vikram P Rathod, “Design and analysis of centrifugal compressor with AxSTREAM”	National Level Industry-Institute Symposium on Turbomachines during April 5-6, 2014(NIST-2014), NIT Allahabad.	2014
6.	Vikram P Rathod, Purnanand V. Bhale, Suyog Ghungrad, Investigation on Dry Reforming Reaction of Compressed Biogas for Syngas Production: Effect	Presented in 24th National Conference on I. C Engines and Combustion organized by University of Petroleum & Energy Studies, Dehradun. Oct- 2015	2015

	of Pressure Variation.		
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Sr No.	Institute /Organization	Title	Duration		
			From	To	Weeks /Days
1.	Anchor Institute, S.V.N.I.T., Surat.	“ Pressure Vessels-Design, Inspection Repair & Alterations”	19-07-10	23-07-10	1 Week
2.	Anchor Institute, S.V.N.I.T., Surat.	“CNC Programming (FANUC: OM & OT)”	04-04-11	09-04-11	1 Week
3.	Anchor Institute, S.V.N.I.T., Surat.	“Pump and Valve Selection for Optimum System Performance.”	25-04-11	29-04-11	1 Week
4.	Anchor Institute, S.V.N.I.T., Surat.	“Lubrication of Rolling Element Bearing, Root Causes Bearing Damage Analysis-WE204”	25-05-11	29-05-11	1 Week
5.	S.V.N.I.T., surat & IIT Kharagpur	“Fluid Mechanics”	20-05-14	30-05-14	2 Week