



## **Vinod Chimmanrao Shewale**

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### **Personal**

Name : Vinod Chimmanrao Shewale  
Date of Birth : 31/05/1976  
Religion : Hindu-Maratha  
Nationality : Indian  
Present Position : Professor  
Experience : 19 Years & 3 month  
Marital Status : Married  
Category : Open  
Areas of Research : Thermal engineering, Heat Transfer, Refrigeration and Air Conditioning.

### **Educational Details**

<b>Degree / Diploma</b>	<b>College /University</b>	<b>Year of Passing</b>	<b>Percentage Marks/CGPA</b>	<b>Class</b>
Ph.D	RTM Nagpur University	2017	Awarded	
M-Tech (Thermal Engg.)	National Institute of Technology, Surat.	2010	9.5 CGPA	Distinction
B.E. (Mechanical)	North Maharashtra University, Jalgaon	1998	61	First Class
H.S.C	Nasik Board.	1994	72.33	First Class
S.S.C	Pune University.	1992	81.28	Distinction

## Thesis/dissertation

Degree	Supervisors	Title
Ph.D.	Dr. P. R. Dongarwar	Performance evaluation of spherical cavity receiver of solar concentrator
M.E	Dr. P. R. Tailor	Design Optimization of Shell and Tube Heat Exchanger

## Experience

### Teaching Experience (16 Years )

Organization	Duration	Designation	Total Experience
NDMVPS's KB Thakare College of Engineering, Nashik.	1 <sup>st</sup> July 2017- Till date	Professor	4 Year 9 Months
NDMVPS's KB Thakare College of Engineering, Nashik.	1 <sup>st</sup> July 2014- 30 <sup>th</sup> June 2017	Associate Professor	3 Year
NDMVPS's KB Thakare College of Engineering, Nashik.	1 <sup>st</sup> April 2011- 30 <sup>th</sup> June 2014	Assistant Professor	3 Year 2 Months
NDMVPS's KB Thakare College of Engineering, Nashik.	1 <sup>st</sup> July 2009 – 1 <sup>st</sup> April 2011	Sr. Lecturer	1 year 9 Months
NDMVPS's KB Thakare College of Engineering, Nashik.	4 <sup>th</sup> Jan 2006- 30 <sup>th</sup> June2009	Lecturer	3 Years 6 Months

### Industrial Experience (7 years)

Organization	Duration	Designation	Total Experience
Samant Soma Wines Limited. Nasik.	2 <sup>nd</sup> Feb.2002-21 <sup>st</sup> Dec. 2005.	Maintenance Manager	3 Years 11 Months
Jeju Plast Limited, Pune.	15 <sup>th</sup> sep. 2000- 30 <sup>th</sup> Jan.2002.	Maintenance Engineer	1 Year 5 months
Caprihan's India Limited. Nasik.	5th Jan.1999 - 14 <sup>th</sup> Sep 2000	Maintenance Engineer	1 Year 8 Months

## Technical Skills:

Modeling and Analysis	COMPUTATIONAL FLUID DYNAMICS, AUTO-CAD.
Programming	MATLAB, SCILAB

## Publications

### Total Publications: 18

- Paper entitled “Analysis of spherical cavity receiver of solar concentrator for heat losses” has been published in Journal of Applied Mechanics and Materials, Vols. 541-542 (2014) p.p.1011-1016.
- Paper entitled “Heat loss analysis from cylindrical cavity receiver of solar concentrator” has been published in Journal of Applied Mechanics and Materials, Vols.541-542 (2014) p.p.996-1001.
- Published paper on “Effect of opening ratio and operating temperature on heat losses of cavity receiver of solar concentrator” in the International Journal of Computer Application.
- Published paper on “Experimental and numerical analysis of convective heat losses from spherical cavity receiver of solar concentrator” in the SCI Journal of Thermal Science.
- Published paper on “Investigation of heat losses from spherical cavity receiver of solar concentrator” in the SCI Journal of Mechanical Science and Technology (Springer).
- Published paper on “Advanced automated slurry distribution unit for agricultural applications” in the International Research Journal of Engineering and Technology in May 2020.
- Published paper on “Multinozzle spraying machine with manually operated clutch for agricultural purpose” in the International Journal of Scientific Development and Research in May 2020.
- Published paper on “Parametric study of different biomass feedstock used for gasification process of gasifier- A Literature Review” in the SCI Journal of Springer in Sep. 2021

## Papers presented in International Conferences

- “Effect of excess air on efficiency of Boiler for different fuels.” Presented in the International conference held on 9-11 Dec 2009 at IIT Bombay.

- “Heat Pipes thermal analysis during cooling cycle with thermal storage.” Presented in the International Conference held on 4-6 Jan 2010 at SVNIT Surat.
- “Genetic algorithm application for the optimization of heat exchanger by entropy minimization.” Presented in the International Conference in 2010 at IIT Madras.
- Presented paper on “Analysis of Heat Pipe” in the National conference held on 4-6 march 2010 at MET Institute of engineering Nasik.
- Presented paper on “Effect of spherical cavity receiver of solar concentrator- A Literature Review” in the first International conference held on 12-14 march 2012 at COE Sangamner.
- Presented paper on “Analysis of spherical cavity receiver of solar concentrator for heat losses” in the International conference held on 10-11 march 2014 at Penang, Malaysia.
- Presented paper on “Heat loss analysis from cylindrical cavity receiver of solar concentrator” in the International conference held on 10-11 march 2014 at Penang, Malaysia.
- Presented paper on “Effect of opening ratio and operating temperature on heat losses of cavity receiver of solar concentrator” in the International conference held on 14-17 March 2015 at BDCOE Wardha.
- Presented a paper entitled “Experimental investigation to study heat transfer and pressure drop characteristics of hemispherical cup shape passive insert for a fully developed turbulent flow in double pipe heat exchanger” in international conference held during 26-27 April, 2019 at D.Y.Patil Institute of Engineering and Technology, Pune.
- Presented a paper entitled “Performance study of cavity receiver of solar concentrator using dry test” in international conference held during 26-27 April, 2019 at D.Y.Patil Institute of Engineering and Technology, Pune.

### Research projects (Ongoing/completed) and other funding received

Sr. No.	Title of Project/scheme	Period	Funding agency	Amount (in lakhs)	Role
1	Analysis of spherical cavity receiver of solar concentrator <b>(Completed)</b>	23/8/2016 to 22/8/2019	BCUD, SPPU, Pune	2.1	Principal Investigator
2	Modernization of Refrigeration and Air conditioning Lab <b>(Ongoing)</b>	08/02/2022 to 07/02/2024	AICTE, New Delhi	17.75	Coordinator

## NPTEL /Coursera Courses completed

- Accreditation and Outcome Based Learning
- NBA Accreditation and Teaching-Learning in Engineering (NATE)
- NBA Accreditation for undergraduate Engineering
- Speak English Professionally : In person, online and on phone

## Subject taught

Sr. No.	Institute	Subjects
1	MVPS's KBT College of Engineering, Nashik	Heat Transfer, Refrigeration and Air Conditioning, Turbo-Machines, Power plant Engineering

## Seminar /Conference/ STTP Attended

- Attended two day workshop on "Tribology" held on 10-11<sup>th</sup> Feb.2006 at Sinhgad College of engineering, Pune.
- Attended one day workshop on "Mechanical System Design" on 12<sup>th</sup> Aug. 2006 at P.R.E.C Loni.
- Attended one day workshop on "Introduction to Mechatronics" held on 2<sup>nd</sup> sep. 2006 at N.D.M.V.P. Samaj's K.B.T College of engineering. Nasik.
- Attended one day workshop on "Design and Simulation of Hydraulic, Pneumatic and Electrochemical systems." held on 26<sup>th</sup> feb.2010 at N.D.M.V.P Samaj's K.B.T College of engineering, Nasik.
- Attended one day workshop on "Syllabus setting of Heat Transfer and Refrigeration& Air conditioning" at Modern College of Engineering, Pune on 15<sup>th</sup> march 2010.
- Attended five day workshop on "Computational Fluid Dynamics (CFD) for Engineers." held on 1 to 5<sup>th</sup> Feb.2010 at SVNIT Surat.
- Attended five day workshop on "Mission 10X" held on 16 May to 20<sup>th</sup> May 2011 at N.D.M.V.P. Samaj's K.B.T College of engineering, Nasik.
- Attended two-week ISTE workshop on "Heat Transfer" held on 29<sup>th</sup> Nov. to 10<sup>th</sup> Dec.2011 at K.K. Wagh College of engineering, Nasik, organized by IIT Mumbai.
- Attended one day workshop on "Direct use of Renewable Energy & Energy Saving Systems in Industries & Homes" held on 19<sup>th</sup> June 2011 at N.D.M.V.P. Samaj's K.B.T College of engineering, Nasik.
- Attended two day workshop on "Energy Audit: Scope and opportunities" held on 24 & 25<sup>th</sup> Feb.2012 at Sandip Institute of Engineering & Management, Nasik.

- Attended two-week ISTE workshop on “Engineering Thermodynamics” held on 11<sup>th</sup> to 21<sup>st</sup> Dec. 2012 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik, organized by IIT Mumbai.
- Attended two-week ISTE workshop on “Computational Fluid Dynamics” held on 12<sup>th</sup> to 22<sup>nd</sup> June 2012 at K.K. Wagh College of engineering, Nasik, organized by IIT Mumbai.
- Attended two-week ISTE workshop on “Research Methods in Educational Technology” held on Oct. 2013 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik, organized by IIT Mumbai.
- Attended two day workshop on “Tribological Aspects in Design” held on 3<sup>rd</sup> and 4<sup>th</sup> Oct. 2013 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik.
- Attended two days workshop on “Aakash for Education” held on 10<sup>th</sup> & 11<sup>th</sup> Nov. 2012 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik, organized by IIT Mumbai
- Attended two-week ISTE workshop on “Engineering Mechanics” held on 26 Nov. to 06 Dec. 2013 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik, organized by IIT Mumbai.
- Attended two-week ISTE workshop on “Fluid Mechanics” held on 20 May to 30 May 2014 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik, organized by IIT Kharagpur.
- Attended two day workshop on “Recent trend in Heat Transfer” held on 4<sup>th</sup> and 5<sup>th</sup> Feb. 2016 at N.D.M.V.P. Samaj’s K.B.T College of engineering, Nasik.

### **Project and Seminar Guided for UG students**

- No. of Project Guided – 32
- No. of students Guided for Seminar -154

### **Research Interests**

- Thermal engineering, Heat Transfer, Refrigeration and Air conditioning.

### **Membership of Professional Institutions**

- Indian Society for Technical Education.
- Indian Society of Heating, Refrigeration and Air conditioning Engineers.
- Society of Automotive Engineers India.

## **Curriculum Activity**

- NAAC Coordinator
- Dean (Academics)
- ISO Internal Auditor.
- Coordinator of SAE Baja activity.
- Seminar Coordinator.
- Project Coordinator.
- Project guide of final year students.

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

(Dr. Vinod. C. Shewale)