



## **RESUME**

**Name** : Vijaykumar Hari Patil  
**Age** : 41+years  
**Present Position, Working Place & Address for Communication** : Associate Professor & Head of Department  
Department Of Mechanical Engineering.  
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### **Educational Qualification :**

<b>Sr. No.</b>	<b>Examination</b>	<b>University/Board/Institute</b>	<b>Year</b>	<b>% obtained</b>
1	S.S.C.	Nagpur	1991	84%
2	H.S.C.	Amravati	1993	76%
3	B.E. Mechanical Engg.	Amravati	1997	69.09%
4	M.E. Mechanical Engg.	R.G.P.V., Bhopal	2005	75.88%
5	Ph.D.	Amravati	Thesis Submitted	

**Title Of Ph.D. Thesis:** Failure analysis and performance evaluation of boiler Tube in Thermal power Station.

**Specialization:** Tribology and Maintenance Engineering.

**Areas of Interest:** Maintenance Engineering, Machine Drawing, Failure Analysis study, Non-conventional Energy sources.

**Subjects Dealt:** Theory of machines, Tribology, Machine Drawing, Non-Conventional Energy. Industrial Engineering, Engineering Drawing.

### **Workshop/Seminars Attended:**

1. “Continuing Education and Quality improvement programmes”, Conducted by IIT Bombay, 1 to 5 April 2008
2. “Institution Building and Staff Development” held at AISSMS institute of IT Pune, 8 to 9 October 2009
3. The “New Efficiency First Look Clinic” Conducted by Microsoft, 8 to 11 Oct 2009
4. “Finite Element Analysis” conducted by RIT, Rajaramnagar, 10 to 14 Feb 2009
5. “Design and Simulation of Hydraulic, Pneumatic and Electro Technical System with integrated control through Electrical, PLC, SFC and Digital Electronics using Automation Studio” at Thakare college of Engineering Nashik, 26 February 2010
6. “Computer networking using Linux “Conducted by C.I.G.Trainer Hcl Pvt. Ltd. Mumbai organized by GCOE Jalgaon, 17 to 20 March 2010
7. “Syllabus framing for the Master of Engineering” Under NMU Jalgaon, 20 July 2011
8. “Teaching Learning Process in Engineering and Technology” GCOE, Jalgaon, 9 to 11 November 2011
9. “Master cam Milling and Robot Programming “at GCOE Jalgaon, 30 to 31 January 2012
10. “Syllabus Structure Framing “for faculty of Engineering and Technology NMU Jalgaon at RC Patel Institute of Technology, Shirpur, 11 February 2012
11. “Elements of Mechanical Engineering and Engineering Graphics “at NMU Jalgaon , 19 March 2012
12. “Automotive design and Analysis” conducted by Codex Design Services, COE Jalgaon, 4 March 2015
13. Recent trends & research in Engineering & Science, at Dr. V. B. Kolte College of Engineering & Polytechnic, Malkapur, 21 to 23 March 2015
14. NBA Workshop at College of Engineering, Pune, 11 April 2015 conducted by Directorate of Technical Education Maharashtra.

### **Papers Published:**

#### **National/International Conference: 03**

<b>Sr. No.</b>	<b>Title of Research Publication</b>	<b>Name of Conference</b>
01	Data Acquisition System for Vibration Monitoring	National Conference on Emerging Technology In Engineering and Management on 20 February 2011 at GF's Godavari College of Engg Jalgaon.
02	Factor Affecting Boiler Tube Failure in Pulverized Coal Fire Boiler	National Conference on Engineering Research and Application 1 to 2 March 2012 at GF's Godavari College of Engg Jalgaon.
03	Non-Conventional Energy Sources	An International Conference On Emerging Trends in Technology and It's Application 6 to 7 march 2013 at GF's Godavari College of Engg Jalgaon.

#### **International Journal: 22**

<b>Sr. No.</b>	<b>Title of Research Publication</b>	<b>References to the Journal and its issue in which published (Volume No., Month, Year, Page no etc.)</b>
01	Design and Optimization of Flow field of Tangentially Fired Boiler	International Journal of Mechanical Engineering, Volume 1 Issue 4-2014
02	A Review on Design and Analysis of Flow field of Tangentially Fired Boiler	National level Technical symposium VISHWOTECH-21 to 22 Feb 2014
03	Recent Trends and Research in Engineering and Science 2015	REVELATION -2K15 and Secured position Session Chair
04	A review on evaluation of the deformation induced by solar radiation on solar panel frame	IJMERR Vol. 3, No. 3, July 2014
05	Failure analysis and performance evaluation of the solar panel frame	IJPRET, Aug. 2014
06	Design and optimization of Flow field of Tangentially fired Boiler	SSRG-IJME, July 2014
07	Improvement In COP Of Refrigeration Tutor By Using Single Embossed Plate Coil Evaporator Over A Bonded Coil Evaporator	IJISSET, Vol. 2, issue 1, Jan 2015, ISSN:2348-7968,
08	A critical review on low temperature solar water heater collectors	IJSSBT, Vol. 3, no. 1, ISSN: 2277-7261, Dec 2014
09	2D CFD Simulations of Nozzle	IJAEAS, ISSSN(P) : 2348-1811, ISSN (E):

	Flow Analysis for Carburettor	2348-182X, Vol. 1, Iss. 4, Sept 2014. Pp. 105-111
10	Analysis of Steady State heat conduction in different composite wall	IJIRSET, Vol. 4, iss. 7, 5394-5400, July 2015
11	A Review On Experimental Investigation Of Solar Dryer For Tomato Drying	4 <sup>th</sup> International Conference on Recent Trends in Engineering & Technology (ICRTET'2015) 2 <sup>nd</sup> to 4 <sup>th</sup> July, 2015IJMTER, 2349-9745, pp. 1963-1966, 24 July 2015
12	Experimental Analysis of Heat Transfer Enhancement of Wavy Twisted Tape Insert	2International Conference on Science, Technology and Management ISBN:978-81-931039-6-8,27 September 2015
13	Experimental Analysis of Heat Transfer Enhancement of Wavy Twisted Tape Insert	IJARSE,ISSN-2319-8354 Volume 4,issue S-1,September 2015
14	Experimental Investigation of Radiator System for a Stationary C.I Engine	IJARSMT,Volume 1,Issue 5,October 2015
15	Experimental Study on Heat Recovery from Continuous Blow Down water and Reduced Feed Water Consumption by Utilizing It in CFBC Boiler	IJERA Journal,Volume-6,Issue 5.May 2016
16	Performance, Emissions and Combustion Evaluation of CI Engine using Bio fuel	International Journal of Science ,Engineering and Technology Research, Volume-5,Issue 1 January 2016
17	Design Development and Analysis of Hybrid Air Conditioner	IJATES,Volume-4,Issue 5 May 2016
18	An overview of Solar Water Heating System Using Phase Change Material	IJIRSET,Volume-5,Issue-6,June 2016
19	Experimental Analysis of Thermo Static Expansion Valve ,Constant Expansion Device and Cap Tube on VCRS	International Journal of Scientific Engineering and Applied Science,ISSN:2395-3470,Volume-2,Issue 6,June 2016
20	Design Procedure of Hybrid Air-Conditioner with Thermal Analysis	IJATES,ISSN 2348 -7550,Volume 4,Issue 7,July 2016
21	Design, Implementation and Utilization of Finite Element Method	International Journal of Advanced Engineering and Application
22	Thermal Performance of Solar Tunnel Dryer By Using Various Absorbing Materials	IJAERD,ISSN 2348-4470,Vol-4, Issue-8, August-2017

**Details of P.G. Students Guided:**

<b>Sr No</b>	<b>Name of Student</b>	<b>Title of Thesis</b>
01	Chaudhari Piyushkumar B.	Erosion Failure Analysis of Boiler Tube in Cfbc Boiler at J.K.Paper Ltd., Songadh
02	Ingale Jitesh Ashok	Failure Analysis and Performance Evaluation of Solar Panel Frame
03	Patil Sudhir U.	Comparative Analysis of Natural and Forced Type Solar Dryer for Different Collector Geometries
04	Wagh Yogesh Jaywant	Furnace Burner Design for Power Plant Industry Using Cfd and its Optimization
05	Gayakwad Kiran G.	Heat Recovery From Continuous Blowdown and Reduced Feed Water Consumption In Cfbc Boiler at J.K.Paper Mill, Songadh
06	Mansuri Iqbal Husain	Experimental Investigation of Radiator System for a Stationary C.I. Engine
07	Yugendersing Rupsing Girase	Design Development and Experimental Analysis of Evaporative Cooler for Horticulture Product.
08	Swapnil Suresh Patil	Design Development and Analysis of Hybrid Air Conditioner Using Conventional Vcc, Peltier Module and Earth Heat Exchanger.
09	More Nikhil G.	Experimental Investigation of Dual Purpose Solar Collector.
10	Gaikwad Kiran G	Heat Recovery From Continuous Blow Down and Reduced Feed Water Consumption in Cfbc Boiler at J.K.Paper Ltd, Fort Songarh