

Name Dr. Vilas R. Kalamkar

Date of Birth 15th April 1970

Designation Assistant Professor (CAS),
Mechanical Engineering Department,
Sardar Patel College of Engineering,
Bhavans Campus, Andheri (West).
Mumbai – 58.



Qualifications B.E(Mech)., M.E(Mech)., Ph.D(Aerodynamics).

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1. Educational record:

University/College	Degree	Year	Field of Specialization
Amravati University	B.E.	1991	Mechanical Engineering
Mumbai University	M.E.	1999	Mechanical Engineering
I.I.T., Mumbai	Ph.D.	2008	Aerospace Engineering

2. Employment record (starting from present position):

University/College	Designation	Year of Induction
Sardar Patel College of Engg	AP(CAS)	July 2008
Sardar Patel College of Engg	Lecturer	January 1998
S. B. M. Polytechnic	Lecturer	May 1994

3. Honors/Awards:

- Elected as Member of Board of Management of Sardar Patel College of Engineering, Andheri(W) (An Autonomous Institute)
- Appointed as a Chairman for two sessions in “The Ninth Asian International Conference on Fluid Machinery” held at Jeju, South Korea.
- Worked as Judge for the technical paper presentation in SANKALP 2011 at Fr. Rodrigues Institutes.
- Appointed as a Chairman of technical session in National conference on “Recent Trends in Mechanical Engineering” held at DMCOE, New Mumbai
- Best paper award for the paper “Analysis of overhead valve push rod type valve for off road diesel engine” at ICAME 2009 held at University Teknologi MARA Malaysia.
- Best Teacher Award from management of SPCE for the year 2006-2008
- Review Committee member for International Journal
- Obtain fellowship Government of India during PhD
- Awarded national merit scholarship
- Obtain UGC grant for travel to Japan and Malaysia for presenting the paper at international conference.

4. Publications

- National Conference Papers - **08**
- International Conference Papers - **16**
- International Journal Papers – **03**
- National Journal Papers- **02**

5. Guided: Ph.D. 04 – Registered,
M.E. – 10 - Graduated,
05 - in progress

6. Membership:

- Indian Society for Technical Education – Life Member
- Indian Society of Nondestructive Testing - Life member
- Institution of Engineers, India – Member
- Member Board of Studies, Mechanical Engineering, University of Mumbai
- Member Faculty of Technology, University of Mumbai.

7. DTE / University/College Work:

- DTE Expert Committee Member for New Institute
- DTE- involved in First year/Second year engineering admissions
- DTE – Mechanical Engineering Expert for interview in different colleges
- DTE- Hearing/Scrutiny of applications for new institution Courses
- DTE- Committee member for identifying the proprietary nature of software
- Mumbai University- ME Cap Coordinator 2009-10
- Mumbai University – Syllabus Revision Committee member for UG and PG Courses
- Mumbai University- Local Inquiry committee member for different colleges
- MPSC- Mechanical Engineering Subject expert for conducting interviews for lecturer in engineering college.
- Worked as subject expert for the selection of Junior Engineers for Maharashtra State Power Generation Company
- Worked as subject expert for the selection of faculty positions in mechanical engineering at NMIMS University

8. Courses conducted and Lectures delivered:

- Coordinated two week training program on “CFD Fundamentals and Software Training” organized by SPCE during 5-16 July 2010
- Coordinated two day orientation program on “Computational Fluid Dynamics” organized by SPCE during 18-19 September 2009.
- Coordinated five day workshop and training on “Computer Aided Engineering for Industrial Applications” jointly organized by Zeus Numerix Private Limited during 16th June 2008 to 20th June 2008
- Coordinated one day seminar on “Computational Fluid Dynamics for Industrial Applications” jointly organized by SPCE and Zeus Numerix private Limited during 24th March 2007
- Coordinated ten days the management development program on “Continuous Quality Improvement ” jointly organized by SBM Polytechnic and NCQM during 2nd March 1998 to 12 March 1998
- Delivered lectures on “Application of CFD for Turbomachinery” in courses organized on CFD at SPCE

9. Courses/Seminar attended:

- QIP Short Term Course on First Course in Computational Fluid Dynamics conducted at IIT Bombay during June 02-07, 2003.
- QIP Short term Course on Introduction to Fluid Mechanics conducted at IIT Bombay during May 20-24, 2002
- Three week winter school on teaching object oriented programming and data structures in C++ from 26-12-2001 to 14-12-2001.
- Seminar on Fluid Power Technology organized by ISTE chapter, KJSCE and Department of Mechanical Engineering on March 24th 2001
- Five week winter school on Object oriented programming in C++ and Java from 27-11-2000 to 29-12-2000

- Technical seminar on “Emerging trends in Dimensional Metrology and Statistical Process Control” organized by Sardar Patel college of engineering and sponsored by Baker Gauges India Limited on 23rd January 1999.
- Induction Training program for Teachers under Faculty Development Scheme of AICTE from 13-5-1996 to 31-5-1996
- Continuing Education Program module(20 hours) on ISO-9000 Quality systems conducted by Centre for Entrepreneurship and Management development, Shri Bhagubhai Mafatlal Polytechnic during 16-8-94 and 26-8-94

10 Conferences Attended:

- 13th Asian Congress of Fluid Mechanics (13ACFM), 17-21 December 2010, Dhaka, Bangladesh.
- International Conference on Advances in Mechanical Engineering (ICAME 2009), 24-25 June 2009 held at Universiti Teknologi, Mara, Malaysia.
- 2nd National Conference on “CFD Applications in Power and Industry Sectors”, January 28-29, 2009, Corporate R&D Division, BHEL, Hyderabad.
- 53rd Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2008)(An International Meet) held at University College of Engineering, Osmania University, Hyderabad during December 27th -30th 2008.
- 7th Asian Computational Fluid Dynamics Conference at IISc. Bangalore during November 26-30, 2007
- 18th National and 7th ISHMT-ASME Heat and Mass Transfer Conference at IIT Guwahati, during January 4-6, 2006.
- 17th International Symposium on Transport Phenomena at Toyama, Japan during September 4-8, 2006.
- 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power at IIT Bombay during December 7-9, 2006.
- National Conference on CFD Applications in Power and Industry Sectors at BHEL, Hyderabad, during December 27th – 30th 2008.
- 32nd National Conference on Fluid Mechanics and Fluid Power at Osmanabad during December 15th – 17th 2005.

11 Publications:

International Journal

1. Santosh Rane and Vilas Kalamkar “Analysis of Overhead Valve Push Rod Type Valve Train for Off Road Diesel Engine”, Journal of Mechanical Engineering, Volume 7 No. 1, July 2010.
2. Yogesh Gawas and Vilas Kalamkar “Numerical Prediction of Cavitating Flows in a Ball Valve”, Journal of Technology Today, Volume II, Issue II, July-August 2010
3. Makarand R. Gurav and Vilas Kalamkar, “An Agitator Shaft’s Fatigue Design Verification using Finite Element Method”, International Review of Mechanical Engineering, Vol. 5 N 1, January 2011, pp 12-20

National Journal

1. M R. Poojary and V. R. Kalamkar, “Validating the simulation results for testing of tractor roll over protective structures (ROPS)”, Journal of Institution of Engineers, Mechanical Engineering, Vol. 90, October 2009
2. S. A. Rane and V. R. Kalamkar, “Design of Push Rod Valve Train for 3 Cylinder Diesel Engine”, Journal of Institution of Engineers, Mechanical Engineering, Vol 91, January 2011

International Conferences

1. Yogesh Gawas and Vilas Kalamkar, “Modeling and Simulation of Valve Coefficients and Cavitation Characteristics in a Ball Valve”, Proceedings of the 13th Asian Congress of Fluid Mechanics, 17-21 December 2010, Dhaka, Bangladesh
2. Makarand Gurav and Vilas Kalamkar, “An Approach for Fatigue Analysis of Agitator Shaft by Finite Element Method”, Proceedings of the ASME 2010 International Mechanical Engineering Congress and Exposition (IMECE 2010), November 12-18, 2010, Vancouver, British Columbia, Canada.
3. Santosh Rane and Vilas Kalamkar “Analysis of Overhead Valve Push Rod Type Valve Train for Off Road Diesel Engine”, at International Conference on Advances in Mechanical Engineering(ICAME 2009), June 24-25 2009, Universiti Teknologi Mara, Malaysia.

4. A. J. Choudhari, V. R. Kalamkar, "Experimental Evaluation and Model Analysis of Flow Surfer and Proposing the Specification for the Prototype Upto 100kg. Weight of Person", at International Conference on Advances in Mechanical Engineering (ICAME 2009), June 24-25 2009, Universiti Teknologi Mara, Malaysia.
5. Poojary Mohan Raju, Dr. V. R. Kalamkar " Exposure Criteria Evaluation for tractor Roll Over Protective Structures(ROPS)", 53rd Congress of Indian Society of theoretical and Applied Mechanics (An International Meet)", December 27-30, 2008, Osmania University, Hyderabad.
6. Kalamkar V. R., Shevare G. R., Roy B., "Flow Predictions in Transonic Compressor Rotor", 12th Asian Congress of Fluid Mechanics", August 18-21, 2008, Daejeon, Korea.
7. Kalamkar, V. R., Shevare, G. R., Roy, B., " Numerical Simulation in Passage of Transonic Compressor Rotor", 7th ACFD, Nov. 26-30, 2007, Banglore, India
8. Kalamkar, V. R., Shevare, G. R., "A Numerical Analysis of Three Dimensional Flow in Transonic Compressor Rotor", The Nineth Asian International Conference on Fluid Machinery , Oct. 16-19, 2007, Jeju, Korea
9. Shaikh Javed, Kalamkar, V. R., Jain S., "Numerical Simulation of Flow Around Hovering Rotor" , The Nineth Asian International Conference on Fluid Machinery , Oct. 16-19, 2007, Jeju, Korea
10. Kalamkar, V. R., Shevare, G. R., Roy, B. "Three-Dimensional Flow Predictions in Transonic Compressor Rotor", 37th AIAA Fluid Dynamics Conference and Exhibit, AIAA paper-3848, 25-28 June 2007, Miami, FL

11. Kalamkar V. R., Gupta B. K., Shevare G. R., "Simulation of Flow in Stirred Tank Using Multiple Reference Frames Method", 18th National and 7th ISHMT-ASME Heat and Mass Transfer Conference, IIT Guwahati, January 4-6, 2006
12. Kalamkar V. R. , Jain S., Shevare G. R., "CFD Simulation in Baffled Stirred Tank Using Sliding Mesh Method", 17th International Symposium on Transport Phenomena, Toyama, Japan, September 4-8, 2006.
13. Kalamkar V. R., Gupta B. K., Shevare G. R., Effect of Turning Angle on the Performance of S-shaped Diffuser", 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, December 8-10, 2006.
14. Kalamkar V. R., Shevare G. R., "Euler Simulation of Flow in Transitional Compressor Rotor(Rotor 37)", 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, December 7-9, 2006.
15. Kalamkar V. R., A. A. Pande, G. R. Shevare, "CFD Simulation of Flow in a Triangular Driven Cavity", 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, December 8-10, 2006.
16. A. Pande, V. R. Kalamkar, S. S. Hirade, G. R. Shevare, "Numerical Solutions of Steady, Viscous Flow in a Triangular Cavity", 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, December 7-9, 2006.

National Conferences

1. Sharad Purohit and Vilas Kalamkar, "Meeting HPC Challenges of CFD", 2nd National Conference on "CFD Applications in Power and Industry Sectors", January 28-29, 2009, Corporate R&D Division, BHEL, Hyderabad
2. Sanjay Rukhande, Dr. V. R. Kalamkar, "FEA Analysis of Rail Wheel Assembly of EOT Crane", National Conference on "Current trends in Technology", November 27-29, 2008, Nirma Institute of Science and Technology, Ahmedabad
3. V. R. Kalamkar, M. Ahamad, B. K. Gupta, G. R. Shevare, "Flow Simulation in Radial Blower Using CFD", 32nd National Conference on Fluid Mechanics and Fluid Power, Osmanabad, December 15-17, 2005.

4. V. R. Kalamkar, G. R. Shevare, Ashish Pande, "Numerical Simulation of Differentially Heated Square Cavity", National Conference on Advances in Heat Transfer and Fluid Dynamics, Aligarh Muslim University, Aligarh, 16-17 September 2006.
5. V.R. Kalamkar, S. Jain, B. Roy, " Euler Simulation of Flow in Transitional Compressor Rotor(Rotor 67)", National Conference on CFD Applications in Power and Industry Sectors, BHEL, Hyderabad, 17-18 November 2006.
6. Choudhari, V. R. Kalamkar, R. D. Jilte, "Design, Development of Flow Surfer Model, Comparison of Experimental and Analytical Results ", 34th National Conference on Fluid Mechanics and Fluid Power", BIT Mesra, Ranchi, December 10-12, 2007
7. V. R. Kalamkar, B. K. Gupta, G. R. Shevare, "Numerical Investigation of Boundary Conditions for Navier-Stokes Calculations", 20th National Convection of Aerospace Engineers, Trivandrum, 14-15 October, 2006
8. Pande, V. R. Kalamkar, G. R. Shevare, "CFD Simulation of Flow Through Tetrahedron Driven Cavity", 9th Annual CFD Symposium, Bangalore, 11-12 August 2006.