

Dr. Rupesh Dineshbhai Shah RESUME

PERSONAL:

Designation : Assistant Professor

Contact Address : Mechanical Engineering Department,

S.V. National Institute of Technology,

Ichchhanath, Surat, Gujarat, India -395007.

Date of birth : 16th April, 1976.

Nationality : Indian

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EDUCATIONAL QUALIFICATION:

Sr.	Year	Title	School/University	Res	sult
No.				Percentage	Grade
1	July 2014	Ph. D.	National Institute of Technology, Surat,		9.67 SGPA In course
	2014		Gujarat.		work
2	2002	M.E.(Mech./Auto mobile) (SemIII)	V.J.T.I., Mumbai.	87.33	Distinction
3	2001	M.E.(Mech./Auto mobile) (SemII)	V.J.T.I., Mumbai.	70	Distinction
4	2001	M.E.(Mech./Auto mobile) (SemI)	V.J.T.I., Mumbai.	71	Distinction
5	1997	B.E.(Mech.)	R.E.C., Surat.	72	Distinction
6	1993	H.S.C.	Gujarat secondary Education Board.	70	Distinction
7	1991	S.S.C.	Gujarat Secondary Education Board.	77	Distinction

EXPERIENCE:

Sr.	Duration	Organization	Designation
No.			
1	Since 1/01/06	S.V.National Institute of Technology,	Assistant
		Surat (Gujarat)	Professor
1	1/08/02 to 31/12/05	S.V.National Institute of Technology,	Lecturer
		Surat (Gujarat)	
2	9/04/02 to 24/07/02	Nirma Institute Of Technology, A'bad.	Lecturer
3	2/8/99 to 30/6/2000	R.E.C., Surat (Gujarat)	Lecturer
4	1/9/98 to 1/8/99	Infoware Computer Technology, Surat.	Faculty
5	14/8/97 to 13/8/98	Citurgia Bio-Chemical. Ltd, Surat.	Trainee
			Engineer

$\underline{\textbf{SPONSORED RESEARCH PROJECT UNDERTAKEN:}}$

Sr.	Title	Sponsoring	Fund	Duration	Status
No.			sanctioned		
1	Towards development	ARDB,	Rs. 19.45	Sept. 2010-	Completed
	of an upward swirl can	New Delhi	Lacs	March 2013	
	type gas turbine				
	combustor				
2	Parametric Investigation	ARDB,	Rs. 20.12	Dec. 2014-	Ongoing
	on Upward Swirl Can	New Delhi	Lacs	Dec 2016	
	Type Gas Turbine				
	Combustor				

TESTING AND CONSULTANCY:

Sr.	Title	Sponsoring	Fund	Duration	Status
No.			sanctioned		
1	Efficiency Evaluation of gas burner for domestic and industrial	Enterprise,	Rs. 5000/-	Nov 2006	Completed
	application.				

RESEARCH PUBLICATION Journal

Sr.	Title of Paper	Name of Journal	Vol.No., Issue No.,
No.			Page No. Year
Intern	ational Journal		
1	A relative assessment of sub grid scale models for large eddy simulation of co-axial combustor	Journal of Mechanical Science and Technology, Springer	Vol.26(6), pp. 1753- 1763, 2012.
2	Thermal and Emission Characteristics of a CAN Combustor	Journal of Heat and Mass Transfer,	DOI 10.1007/s00231- 015-1572-9 Published Online April 2015

Natio	National Journal			
1	An Isothermal Investigation	The IUP Journal of	Vol. IV, No.3,pp 7-21,	
	on the Effect of Swirl	Mechanical Engineering,	August 2011	
	Intensity on Combustor	The ICFAI University		
	Flow Regime	Press		
2	Isothermal Analysis of CAN	The journal of Institute of	DOI 10.1007/s40032-	
	Type Combustor Using Five	Engineers(India):Series C	012-0042-0	
	Hole Probe		Published Online	
			December 2012	

Conference

Sr. No.	Title of Paper	Name of Conference	Page Nos. Volume, Issue No. & Year			
	nternational Conference					
1	Thermal Analysis for Optimization of Shape and Arrangement of Fins in Heat Sink	3 rd International Conference on Fluid Mechanics and Fluid Power December	Paper No: NCFMFP-2006- 1725, Year 2006			
2	Prediction of Ductile Fracture for simple Upsetting Operation Using Genetic Programming	Recent Advances in Computational Mechanics and Simulations (ICCMS- 06)	Volume-I ,page 355-361, 8- 10 December 2006			
3	Application of Finite Element Method and Artificial Neural Network to the design tooling for tube nose operation	Recent Advances in Computational Mechanics and Simulations (ICCMS- 06)	page1039-1045,8-10 December 2006			
4	CFD analysis of pin-fin heat sinks for radial flow domain	International conference on recent development in mechanical engineering	Page 243 -251, 23-25 January 2008			
5	Effect of radiation on flow regime in CAN Type Combustor.	2 nd National and 9 th International ISHMT- ASME Heat and Mass Transfer Conference	January 4-6,2010, Mumbai, India. ISBN:978-981-08-3813-3			
6	Relative Assessment of Radiation models for Gray Isotropic Scattering Medium	21st National and 10th International, ISHMT- ASME Heat and Mass Transfer Conference	ISHMT_IND_02_022, December 27-30, Madras, India, 2011			
Natio	onal conference					
1	Estimation of Pressure Distribution in Inclined Hydrodynamic Pad Bearings using MATLAB with Finite Element Analysis.	Advances in Mechanical Engineering,ECKAME- 2006-02-21	Kota, March 18-19,2006			
2	Three-Dimensional Near – Field Flow Analysis of a car For Drag Reduction	Advances in Mechanical Engineering AIME-2006	Page No. 246-255, Year 2006			
3	Finite Element Analysis of pin fin	Application of Advanced Quality methods in Engineering and Technology – AAQMENT-2006	February 23-24, 2006			

4	Experimental and Numerical simulation of flow over a NACA 0018 airfoil	Application of Advanced Quality methods in Engineering and Technology – AAQMENT-2006	February 23-24, 2006
5	A Study of Residual Life Assessment of Boiler	NASA: Fatigue, Fracture and Ageing Structures	Page No. 401-409. January 30-31,2006
6	A Parametric Study on Friction Welding	National Conference on in National Conference on Recent Advances in Manufacturing Technology RAMT-2006	Page No 77-81,February 3,2006
7	Analysis of Heat Transfer in Fins Under Steady State	National Conference on Advances in Mechanical Engineering ECKAME- 2006	March,18-19,2006
8	CFD Simulation of two dimensional gas turbine combustor geometries	National conference on emerging Trends in mechanical Engineering (ETME-2007)	Paper No. TH21, 4 th -5 th June ,Year 2007
9	Dynamics Effects of Cross-Winds on a car as it Negotiates a Turn	National Conference on Advances in Fluid Flow and Thermal Science	Paper No.:F03, Page No. F17-F26, 22 nd -24 th May 2008
10	Numerical Simulation of Turbine Blade Cooling	3 rd National Conference on Current trends in Technology (NUCONE- 2008). Nirma University of science and Technology,	Page No. 549-553, 27 th - 29 th November 2009, Ahmedabad, India
11	Three Dimensional Vortical Flow Analysis of A Can Type Combustion Chamber	38th National Conference Fluid Mechanics and Fluid Power (FMFP-2011)	Paper No. HT-06, MANIT Bhopal, M.P., India, 15-17 December 2011.
12	Three dimensional reactive flow analysis of a CAN type combustor	National Propulsion Conference	21-23 February 2013, IIT Madras, Chennai, India.

BOOK/PROCEEDING EDITED

- 1. Proceeding of National conference on "Advances on Fluid Flow and Thermal Sciences",
 - S. V. National Institute of technology, Surat, May 22nd -24th 2008.
- 2. Book of abstracts for 39th National Conference on "Fluid Mechanics and Fluid Power",
 - S.V. National Institute of Technology, Surat, 13-15 December 2012.

SEMINAR ATTENDED

 National Seminar on Partial Differential Equation and Scientific Computing (NSPDESC-2006) held on , January 2006 at Department of Mathematics, Veer Narmad South Gujarat University, Surat.

SEMINAR/WORKSHOP ORGANISED:

- 1. Three-Day Workshop on "Introduction to Computational Fluid Dynamics", S.V. National Institute of Technology, Surat, 10-12 May 2006.
- 2. AICTE approved STTP on "Computational Fluid Dynamics: Basics and Applications" from 7th to 11th July 2008, SVNIT, Surat.
- 3. AICTE approved STTP on "Computational Fluid Dynamics for Engineers" 1st -5th February 2010, SVNIT, Surat.
- 4. ISTE approved 2-week workshop on "Computational Fluid Dynamics",12-22 June 2012, SVNIT, Surat.
- 5. TEQIP-II sponsored Continuing Education Program on "Computational Fluid Dynamics: Theory and Practice", 30th June to 4th July 2014, SVNIT, Surat.
- 6. TEQIP-II sponsored 2nd Continuing Education Program on "Computational Fluid Dynamics: Theory and Practice", 15th to 19th June 2015, SVNIT, Surat.

NATIONAL CONFERENCE ORGANIED

1. National conference on "Advances on Fluid Flow and Thermal Sciences", S. V. National Institute of Technology, Surat, May 22nd -24th 2008, SVNIT, Surat.

EXPERT LECTURE DELIVERED:

- 1. **Modeling computational domain and creating the meshes** in Three Day Workshop on "Introduction to Computational Fluid Dynamics", S.V. National Institute of Technology, Surat, 10-12 May 2006.
- 2. Setting up the CFD problem, Execution, Monitoring and Interpretation of Results in Three Day Workshop on "Introduction to Computational Fluid Dynamics", S.V. National Institute of Technology, Surat, 10-12 May 2006

- About Computational Fluid Dynamics, at N. G. Polytechnic, Isroli, Afwa, Bardoli, Surat. On 20th July 2006.
- 4. **Theoretical Aspects of Finite Element Method** in AICTE approved STTP on "Recent Trends in CAE", 30th June to 4th July 2008, SVNIT, Surat.
- 5. **Finite Element Method** in AICTE approved STTP on "Computational Fluid Dynamics: Basics and Applications" 7th to 11th July 2008, SVNIT, Surat.
- Two Dimensional Modeling and Meshing in AICTE approved STTP on "Computational Fluid Dynamics: Basics and Applications" 7th to 11th July 2008, SVNIT, Surat.
- 7. **Three Dimensional Modeling and Meshing** in AICTE approved STTP on "Computational Fluid Dynamics: Basics and Applications" 7th to 11th july 2008, SVNIT, Surat
- 8. **Solution and Post Processing** in AICTE approved STTP on "Computational Fluid Dynamics: Basics and Applications" 7th to 11th july 2008, SVNIT, Surat
- 9. **Fundamentals of Combustion and Numerical Simulation of Combustion** in AICTE approved STTP on "Advances in Heat Transfer" 25th to 29th November 2009, Parul Institute of Engineering and Technology, Vadodra.
- 10. **Basics of Finite Element Method** in AICTE approved STTP on "Training Program on Hypermesh and Hyperform" 5th to 9th January 2009, SVNIT, Surat.
- 11. **Fundamentals of Numerical Methods** in AICTE approved STTP on "Advanced application of FEM" 18th to 22nd January 2010, SVNIT, SURAT.
- 12. **Basics of FEM** in AICTE approved STTP on "Advanced application of FEM" 18th to 22nd January 2010, SVNIT, SURAT.
- 13. **Discretisation Method: FEM** AICTE approved STTP on "CFD for Engineers" 1st to 5th February 2010, SVNIT, SURAT.

- 14. **CFD Using Finite Element Methods** in AICTE approved STTP on "Application of Computational Fluid Dynamics in Mechanical Engineering", 10th -14th May, 2010.
- 15. **Fundamentals of Dynamic Analysis of Mechanical System using ANSYS** in Training Program on Finite Element Analysis, Anchor Institute Cell, 9th to 13th June 2010.
- 16. **Application of Finite Element Analysis to Thermal Problems** at in AICTE approved one week STTP at R K. University, Rajkot, December 26, 2011.
- 17. **Solution of Transient and moving load problem using FEM** in Training Program in Advanced Finite Element Analysis, SVNIT, Surat, 12-13 May 2012.

REVIEWER

- 1. ASME Gas Turbines India Conference 2012, December 1, 2012, Mumbai Maharashtra, India. (One paper reviewed. Paper No. GTINDIA2012-9650)
- 2. National Conference on Fluid Mechanics and Fluid Power, 2012, SVNIT, Surat, Gujarat, India. (Five papers reviewed. Paper No. FMFP2012116, 101, 6, 222 and 150)
- 3. ASME Gas Turbines India Conference, December 15-17, 2014, New Delhi, India. (Three paper Reviewed. Paper No. GTINDIA2014-8138, 8212 and 8239)

EXPERT MEMBER

 Expert Member for GTU Interview Panel for recruitment of Assistant Professor in Mechanical Engineering Department at Shree Swami Atmanand Saraswati Institute of Technology Surat on 6th August 2014

M. E. / M. TECH DISSERTATION GUIDED

1	FEM Analysis of PAD Bearing		
2	Thermal Analysis of Heat-Sink		
3	CFD Simulation of Turbine Blade Cooling		
4	CFD Simulation of Can Type Gas Turbine Combustor		
5	Tube Sheet Analysis		
6	Flow Visualization in 2-D Can Type Combustor and Non-Premixed Combustion		
	Analysis of 3-D Can-Type Combustor.		
7	Numerical Investigation of Combustion of Methane-Hydrogen Fuel Mixtures in CAN		
	Type Combustor		
8	Isothermal Analysis and Development of CAN Type Combustor for Flow		
	Visualization		
9	Numerical Simulation of Shell and Tube Type of H.E.		
10	Numerical Simulation of Flow Boiling and Experimental Analysis to Visualise Flow		
	Pattern		
11	Acoustic Analysis of Heat Exchanger Using CFD.		

12	Numerical and Experimental Investigation on CAN Type Combustion Chamber
13	Large Eddy Simulation of Gas Turbine Combustion Chamber.
14	Shape Design Optimisation of Connecting Rod Using ANSYS
15	Numerical Analysis of Solid Oxide Fuel Cell
16	Simulation of Gas Turbine Combustion Chamber
17	Numerical and Experimental Investigation of CAN type Combustion Chambers
18	Effect of Radiation on combustor flow regime
19	Large Eddy Simulation of Gas Turbine Combustion Chamber
20	Numerical and Experimental Investigation of CAN type combustion chamber.
21	Flow induced vibration analysis
22	Experimental and numerical investigation centrifugal pump performance in reverse
	mode
23	Experimental study of pump performance characteristics in reverse and pump mode
24	Numerical Investigation of CAN Type Combustor
25	Numerical Simulation of Moving Heat Source
26	Loss Models and Performance Evaluation of Centrifugal Pump
27	Experimental and Numerical Investigation of Centrifugal Pump Performance
28	Numerical and Experimental Analysis of Open Non-Premixed Swirl Stabilised Flame
29	Numerical Simulation of Direct Injection Engine
30	Numerical Simulation of Moving Heat Source