

CURRICULUM VITAE

Dr. NILESH P. SALUNKE

36 Datta Colony, Behind Ekvira School, Deopur, Dhule 424005

Mob No:- 9881136769, Email:- sainilesh1@gmail.com

CAREER OBJECTIVE

To excel in research and development of Turbo-machinery with respect to the design aspects by integrating the applications of Information Technology and to achieve a challenging position that adds my professional knowledge and growth.

EDUCATIONAL DETAILS

- 2018 : Ph.D. in Mechanical Engineering from Sardar Vallabhbhai National Institute of Technology, Surat, 12th Jan. 2018.**
- 2004 : M.E in Mechanical Engineering (Jet Propulsion and Gas Turbine Plants) from Maharaja Sayajirao University, Baroda. Jan. 2004**
- 2000 : B.E in Mechanical Engineering from Amravati University, Amravati, June 2000**
- 1997 : Diploma in Mechanical Engineering from Board of Technical Education, Mumbai**

PROFESSIONAL EXPERIENCE

- ❖ **Principal, at Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule, from 30 Dec. 2017 till date.**
- ❖ **HOD and Associate Professor, at R. C. Patel Institute of Technology, Shirpur, from June 2008 to Dec. 2017.**
- ❖ **HOD and Assistant Professor, at R. C. Patel Institute of Technology, Shirpur, from May 2007 to May 2008.**
- ❖ **Assistant Professor (formerly known as lecturer), at R. C. Patel Institute of Technology, Shirpur, from Sep. 2004 – April 2007.**

Nature of Work

- Allocation of roles and responsibilities to the staff of the department.
- Obtaining feedback of staff for performance based appraisal.
- Conducting lectures and practical to the students of Bachelor's in Engineering
- Overall Setup and Establishment of Mechanical Department of the College
- Career counseling and Acting as Local Guardian for a Batch of students.
- Preparation of Various Reports from time to time pertaining to AICTE, DTE etc.

- Guiding the students to carryout research work at institute.
- Syllabus framing for Mechanical Engineering Department of University.
- Consultant for Fabrication and Testing work at college workshop.
- Consultant for Training courses based on CAD-CAM and CAE, conducted at institute.

❖ **Project Assistant at National Aerospace Laboratories, Bangalore.**

Jan 2004 – June 2004

Nature of Work

- Design and Analysis of Controlled Diffusion Aerofoil Section for Stator of an Axial flow compressor for KAVERI ENGINE. CFD codes from NAL were used for the work.

❖ **Lecturer in Rai University, Bangalore**

Jan 2004 – April 2004

Nature or Work

- Conducting lectures and practical's for the students of Engineering

❖ **Maintenance Engineer in Mechanical Engineering Department of R. K. Patel and Company Tobacco Processors, Amalner D. Jalgaon**

June 2000 – May 2002

Nature or Work

- Maintenance of Process machineries for manufacturing tobacco.
- Purchase of New machineries.

❖ **Research Projects:**

- “Design and Analysis of A CD Blade Section for Stator of an Axial Flow Compressor”

Team: - One

Description: - Aim of this project is to Design a Controlled Diffusion Aerofoil Blade Section for Stator of an Axial Flow Compressor based on the geometric procedure specified by U. S. Patent and comparing its performance with the original multiple circular arc aerofoil. For analysis work Denton's code and 2-D boundary layer code developed by NAL (CFD Code) were used. This work was carried out at “Axial Flow Compressor Research Lab for Propulsion Division of National Aerospace Laboratories, Bangalore”.

Contribution: -Entire project right from Code development to Final Analysis.

❖ **Patent**

Sr. No.	Details of Publication	Application Number	Inventors
1	Axial Flow Compressor Blade Section SVNIT-2.2 and SVNIT-2.4	201721044357	Nilesh P. Salunke, Dr. S. A. Channiwala.

❖ **Grants:**

Sr. No.	Name of the Faculty	Title of the proposal	Sanctioning Authority	Year	Granted Amount
1	Dr. Nilesh P. Salunke Prof. Kapil A. Saner	Design and Experimental Analysis of a CDA compressor cascade for Gas turbine.	RGSTC Grant	2014-15	4,75,000/-
2	Dr. Nilesh P. Salunke	Experimental analysis of rectangular fin array and development of Neural network mode for prediction of H.T. Coefficient.	VCRMS Grant	2014-15	70,000/-
3	Dr. Nilesh P. Salunke	Development of Internal Combustion Engine Lab with the addition of Variable compression ratio four stroke diesel engine.	AICTE - MODROBS	2012-13	9,50,000/-

❖ **Research Papers Presented / Published:**

Sr. No.	Details of Publication	Publication	Author (s) / Editor (s)
1	A Review On The Recent Advancements In Improving The Performance Of The Flat Plate Collector	International Journal of Creative Research Thoughts	Dr. Nilesh. P. Salunke J.S. Khatik, Volume 6, Issue 1 January 2018 ISSN: 2320-2882
2	Dimensional Calculations of Knuckle Joint Assembly by Using C Programming	International Journal of Creative Research Thoughts	Nilesh P Salunke, Rohan R Ozarkar Volume 6, Issue 1 January 2018 ISSN: 2320-2882
3	Improvement of Gas Turbine Performance Based on Rib Augmented Cooling Systems : A Review	International Journal of Scientific Research in Science,	Dr. N P Salunke Prof. N M Shinde

		Engineering and Technology	Volume 4 Issue 1 Print ISSN: 2395-1990 02 February 2018
4	Study the Effect on Evaporative Cooling for Different Contact Profiles of Wetted Surfaces	International Journal of Scientific Research in Science, Engineering and Technology	P. L. Sarode, V. R. Baviskar, N. P. Salunke Volume 3 Issue 2 ISSN: 2395-1990 01 March 2017
5	Enhancement of Natural Convection Heat Transfer from Horizontal Rectangular FIN Arrays : A Review	International Journal of Scientific Research in Science, Engineering and Technology	N. P. Salunke, I. N. Wankhede, P. L. Sarode Volume 3 Issue 2 ISSN: 2395-1990 01 March 2017
6	Performance Analysis of Variable Compression Ratio Diesel Engine using Methyl Ester of Cotton Seed Oil blend with Diesel 8 February 2016	Elixir International Journal	Kiran D Chaudhari, Nilesh P Salunke and Vijay K Suryawanshi 91 (2016) 38255-38257
7	To analyze the effect of varying fin shapes for Microprocessor cooling	International Journal of Innovative Research in Science, Engineering and Technology	Pankaj V. Baviskar , Kapil A. Saner , Nilesh P. Salunke Vol. 5, Issue 4, April 2016
8	Design Optimization of an Axial Flow Compressor for Industrial Gas Turbine Volume: 03 Issue: 05 May-2014	International Journal of Research in Engineering and Technology	Nilesh P Salunke Dr. S A Channiwala eISSN: 2319-1163 pISSN: 2321-7308

9	Airfoil Parameterization Techniques: A Review	American Journal of Mechanical Engineering,	Nilesh P Salunke, Juned A R, Dr. S. A. Chaniwala, 2014, Vol. 2, No. 4, 99-102
10	Design and Analysis of a Controlled Diffusion Aerofoil Section for an Axial Compressor Stator and Effect of Incidence Angle and Mach No. on Performance of CDA	International Journal of Fluid Mechanical and System	Nilesh P. Salunke, Dr. S. A. Chaniwala. Vol. 3, No. 1, January-March 2010
11	Static Analysis of Leaf Spring	International Journal of Research in Engineering and Technology	V S Baviskar, Nilesh P Salunke eISSN: 2319-1163 pISSN: 2321-7308
12	Book – [Engineering Thermodynamics]	Prakash publication Jalgaon	K. Shrivastava, N. P. Salunke. ISBN 97893811088118

❖ Workshop / Conferences / Seminars Attended

Sr. No.	Title of Paper	Name of Conference in which published	Date of Publication
1	Design and Analysis of a Controlled Diffusion Aerofoil	Innovations in Mechanical Engineering at J.T.M.C.O.E. Faizpur.	29-30 March 2007
2	Impact of Globalised Economy in Rural sector	National Conference on Going Global : Changing Prospects of Indian Corporation at Department of Management Studies North Maharashtra University, Jalgaon	10-11 January 2008
3	Design and Analysis of a Controlled Diffusion Aerofoil Section for an Axial Compressor Stator and Comparison with Original Multiple Circular Arc Profile Using CFD	15 th ISME International Conference on New Horizons of Mechanical Engineering at RGPV, Bhopal	18-20 March 2008
4	CFD analysis of an orifice meter	National Conference Emerging Trends in Engineering and Technology ET2009	24-25 March 2009

5	Basic of Biotribo corrosion (Poster Presentation)	Avishkar, NMU, Jalgaon	1-2 Dec, 2009
6	Simplified Marker and Cell Method	Innovations in Mechanical Engineering IME- 10 at J.T.M.C.O.E. Faizpur	28-29 Jan, 2010
7	Design of an Axial Flow Compressor for Micro Gas Turbine Engine	International Conference on Science, Engineering & Spirituality, Navalnagar	1-2 Apr, 2010
8	Literature Review on Aerodynamic Design of an Axial Flow Compressor	iCOST-2011-SSVPS, Dhule	13-15 Jan, 2011
9	Theoretical Analysis of Heat Loss Factor by wind Effect on solar flat plate collector with considering number of glass cover layer with tilt angle.	NCAME 13	22-23 Feb. 2013
10	CFD Analysis of Axial Flow Compressor for Different Blade Aspect Ratio	NCAME 13	22-23 Feb. 2013
11	Airfoil Parameterization Techniques: A Review	NCAME 13	22 -23 Feb. 2013
12	Optimization of CDA Cascade using Parameterization and Genetic Algorithm coupled with CFD	Kuala Lumpur	2-4 July 2013
13	Conference - [2nd International Conference on Recent Trends in Engineering and Technology 2013]	ICRTET 2013, Chanwad	22 -24 Feb. 2013

❖ **As a Resource Person in Workshop:-**

Sr. No.	Workshop / Conference	Place	Date
1	Gas Turbine Engine Components Theory & Design	Sardar Vallabhbhai National Institute of Technology, Surat	23-27 March 2015
2	Advances in Theory and Design of Turbo machines	Sardar Vallabhbhai National Institute of Technology, Surat	7-12 November 2016

❖ **Workshop/ Conference Organized:**

Sr. No.	Workshop / Conference	Place	Role
1	Converges	R C Patel Institute of Technology, Shirpur	Convener
2	National Conference on Advances in Mechanical Engineering 2012 (NCAME-12)	R C Patel Institute of Technology, Shirpur	Organising Chairman
3	National Conference on Advances in Mechanical Engineering 2013 (NCAME-13)	R C Patel Institute of Technology, Shirpur	Organising Chairman
4	National Conference on Advances in Mechanical Engineering 2014 (NCAME-14)	R C Patel Institute of Technology, Shirpur	Organising Chairman
5	National Conference on Advances in Mechanical Engineering 2015 (NCAME-15)	R C Patel Institute of Technology, Shirpur	Organising Chairman
6	National Conference on Advances in Mechanical Engineering 2015 (NCAME-16)	R C Patel Institute of Technology, Shirpur	Organising Chairman
7	National Conference on Advances in Mechanical Engineering 2015 (NCAME-17)	R C Patel Institute of Technology, Shirpur	Organising Chairman

❖ **Special Achievements:**

- ✓ **Chairman Board of Studies in Mechanical, Automobile and Production Engineering at NMU Jalgaon.**
- ✓ **Member Faculty of Engineering and Technology, North Maharashtra University, Jalgaon.**
- ✓ **Member Academic Council, North Maharashtra University, Jalgaon.**
- ✓ **Coordinator for setup of R C Patel Polytechnic Shirpur and SVKM, Institute of Technology, Dhule.**
- ✓ **Resource Person for Workshops at SVNIT Surat.**
- ✓ **Coordinator for NAAC (Institute Awarded with "A" Grade), NBA and NIRF.**
- ✓ **Best achievement Award by Engineers Association, Washim for best achievement in annual examination of Board of Technical Examination, Mumbai**

❖ **Member of Professional Bodies:**

Sr. No.	Name of Institution/ Society	Grade of Membership	Date of Election	Whether Still a member
01	The Indian Society for Technical Education	Life Member	2005	Yes
02	American Society of Mechanical Engineers	Member	2008	Yes

03	Indian Society of Mechanical Engineers	Life Member	2008	Yes
04	Institution of Engineers	Associate member	Applied	-----

❖ **MOOC's and QEEE Conducted**

- 254 Online MOOC's certification done till date.
- 399 QEEE certification done till date.

❖ **COMPUTER PROFICIENCY**

PLATFORMS	:	DOS, Windows.
PROGRAMMING LANGUAGES	:	FORTRAN, C.
OFFICE TOOLS	:	M.S Office
DESIGN SOFTWARE	:	Autocad – 14,
ANALYSIS SOFTWARE	:	FLUENT, Gambit, CFX

❖ **PERSONAL DETAILS**

NAME	:	Dr. Nilesh Pitambarrao Salunke
DATE OF BIRTH	:	16 th March 1977
NATIONALITY	:	Indian
PRESENT ADDRESS	:	36 Datta Colony, Behind Ekvira School, Deopur, Dhule 424005
PERMANENT ADDRESS	:	36 Datta Colony, Behind Ekvira School, Deopur, Dhule 424005
LANGUAGES KNOWN	:	Marathi, Hindi & English
AREA OF INTEREST	:	Turbo Machinery, CFD
HOBBIES	:	Reading and Listening to devotional music

❖ **REFERENCES**

1. **Dr. S. A. Channiwala,**
Professor, Department of Mechanical Engineering
SVNIT, Surat
09924166200,
2. **Dr. V. K. Mayawanshi,**
Prof. M. S.U. Faculty of Engg. and Technology, Baroda
Ph. No.(0265)2485959, Mobile:- 09427034455
3. **Dr. Dilipkumar B. Alone**
Scientist 'D'
National Aerospace Laboratories Bangalore
Ph. No.:- (080)25051535, 09886261211
4. **Mr. Q. H. Nagpurwala**
Scientist 'G'
National Aerospace Laboratories Bangalore
Ph. No. Off (080) 25051536, Res. (080) 25298062,