

# CURRICULUM VITAE

## Personal Information:

Name Dr. Shailesh R. Nikam  
Date of Birth 3<sup>rd</sup> September, 1976  
Language Known English, Hindi, Marathi  
Present Post Associate Professor, Mechanical Engineering Department,  
K. J. Somaiya College of Engineering, Mumbai- 400 077  
Office Address Department of Mechanical Engineering  
K. J. Somaiya College of Engineering  
Vidyavihar, Mumbai  
Email: [shailesh.n@somaiya.edu](mailto:shailesh.n@somaiya.edu),  
Phone (O): 022- 66 44 9530

## Academic Qualification:

Degree	University/Board /Institute	Year of Passing	% of marks /CGPA
B.E.	B. D. C. O. E. College of Engineering, Wardha, Nagpur University.	July 1998	70.37
M.E.	S. P. C. O. E. Andheri, Mumbai, Mumbai University	August 2005	72.44
Ph. D.	Indian Institute of Technology Bombay, Powai, Mumbai.	June 2016	7.88

## Thesis Title:

- **Ph.D.** – “Experimental Investigation of Aero-acoustics of High Subsonic Jet from Chevron Nozzle”
- **M.E.** – “Object Oriented Analysis and Modeling in Product design and Development”

## **Professional Experience:**

<b>Employer</b>	<b>Position held</b>	<b>From</b>	<b>To</b>
K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	Associate Professor and Associate HOD	18 <sup>th</sup> December 2017	Till date
K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	Assistant Professor	January 2013	December 2017
Parshvanath College of Engineering, Thane.	Assistant Professor/ Lecture	August 1998	December 2012

## **Responsibilities Handled:**

- Working as a member of Academic Council at K J Somaiya College of Engineering.
- Working as a member of Board of Studies, Mechanical Department, at K J Somaiya College of Engineering.
- Working as Associate Head of the Department, Mechanical Engineering, at K J Somaiya College of Engineering, Vidyavihar, Mumbai.
- Member of Institute Library Advisory committee at K. J. Somaiya College of engineering.
- Member of department NBA committee at K. J. Somaiya College of engineering.
- Department budget coordinator at K. J. Somaiya College of engineering.
- Faculty advisor for ISHRAE student chapter (2015-till date) at K. J. Somaiya College of Engineering.
- Laboratory incharge of Refrigeration and Air Conditioning Lab. at K. J. Somaiya College of engineering.
- Worked as Head of the Department, Mechanical Engineering, at Parshvanath College of Engineering, Thane from September 2007 to June 2009.
- Developed I. C. Engine and Refrigeration-Air conditioning laboratory at Parshvanath College of Engineering, Thane.
- Worked as Faculty advisor for SAE student Chapter (2004-2006) at Parshvanath College of Engineering, Thane.
- Organized Industrial visit and visited various industry and research laboratory like Cryogenics Lab at IITB, ARAI Pune, Sawla cold storage Turbhe, Eklahre, Jindal, Tarapur, BSES Dahanu Thermal Power Plant, Hindalco Ind. Silvasa etc.

## **Courses Taught:**

### **Undergraduate level (B. Tech)**

- Thermodynamics
- Thermal Engineering
- Heat Transfer
- Refrigeration and air conditioning
- Internal combustion Engine
- Cryogenic Engineering

### **Post graduate level (M. Tech)**

- Heat Exchanger Design
- Foundation of Energy Engineering
- Solar Energy

## **M. Tech. /B. Tech Projects guided (selected list):**

Sr. No.	Title of the Project	Program	Year of Completion
1.	Active and Passive Noise Jet noise control	M. Tech.	2019
2.	Heat Transfer enhancement using Impinging Jet	M. Tech.	Ongoing
3.	Effect of geometry of capillary tube on performance of VCRS system	M. Tech.	2018
4.	Effect of fin geometry on performance of Condenser of an air Conditioner	M. Tech.	2017
5.	Thermal analysis of heat sink for electronic devices	M. Tech.	2017
6.	Performance evaluation of spiral and Plate type Heat Exchanger	M. Tech.	2017
7.	Design and development of novel technique to reduce effect of automobile exhaust emission	B. Tech.	2018
8.	Design and Development of cooling Tower	B. Tech.	2017
9.	Computational Investigation of flow over tube bundle	B. Tech	2016
10.	Design and Development of low speed Wind Tunnel	B. Tech.	2015
11.	Investigation of effect of nozzle exit geometry on jet flow development	B. Tech.	2015

## **Outreach:**

- Examination auditor at Sardar Patel College of Engineering, Andheri, Mumbai in year 2017, 2019, 2020
- Worked as M.Tech. Thesis examiner at Aerospace Engineering IIT Bombay, Mumbai, in year June 2018, 2019.

- Worked as M.Tech. Thesis examiner at Sardar Patel College of Engineering, Andheri, Mumbai in year 2017.
- Worked as Subject expert for Syllabus revision of Mechanical Engineering at Sardar Patel College of Engineering, Andheri, Mumbai in year 2017.
- Worked as reviewer for 2<sup>nd</sup> Biennial International Conference on Nascent Technologies in Engineering an IEEE Technically Co-Sponsored Conference held at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India, January 27-28, 2017.
- Worked as reviewer for 43<sup>rd</sup> National and 6<sup>th</sup> International Conference organized by National society of Fluid Mechanics and Fluid Power at MNNIT Allahabad, December 2016.
- Worked as syllabus revision committee member for Mumbai University, Mechanical Engineering in year 2008-2009.

### **Publications:**

- **JOURNAL**

- S. R. Nikam and S. D. Sharma, “Effect of a Chevron Nozzle on Noise radiation from a Compressible Jet” *AIAA Journal*, Vol. 56, No. 11 (2018), pp. 4361-4378, DOI: 10.2514/1.J056931
- S. R. Nikam and S. D. Sharma, “Effect of Chevron Nozzle Penetration on Aero-Acoustic Characteristics of Jet at  $M = 0.8$ ,” *Fluid Dyn. Res. Journal*, 49 (2017) 065506 (33pp). DOI: 10.1088/1873-7005/aa8501
- S. R. Nikam and S. D. Sharma, “Aero-acoustic Characteristics of Compressible Jet from Chevron Nozzle,” *AIAA Paper-2014-2623*, DOI: 10.2514/6.2014-2623.
- S. S. Bhusnoor, S. R. Nikam, A. T. Saraf, “Impact of Alternative Fuels on Socio Economic Concern: Experiments, Experiences and Inferences” *Journal of Engineering Education Transformations*, Volume 33, January 2020, Special issue, eISSN 2394-1707
- S. R. Nikam, S. S. Bhusnoor, V. B. Bhosle, A. T. Saraf, “Impact of Experiential Learning on Performance of Students and attainment of Course and Program outcome”, *Journal of Engineering Education Transformations*, Volume 33, January 2020, Special issue, eISSN 2394-1707
- Chintak Parashar and S. R. Nikam, “Thermal Analysis of Heat Sink for Electronic Devices,” *International Journal of Engineering Education & Technology*, Vol.5, Issue 2, April 2017.

- **INTERNATIONAL CONFERENCE**

- S. R. Nikam, Siddhesh Bhikole, Malay Suvagiya, “Noise Source Characteristics of Compressible Jet from non Axisymmetric Nozzles”, Proceedings of the 16<sup>th</sup> Asian Congress of Fluid Mechanics, 13-17 Dec 2019 organised by IISc Bangalore.
- Kalpesh Pawar, S. R. Nikam and Prathamesh Chavan, “Effect of Chevron Nozzle Penetration on Heat Transfer Characteristics in an Impinging Jet”, 7th International and 45th National Conference on Fluid Mechanics and Fluid Power (FMFP), December 10-12, 2018, IIT Bombay, Mumbai, India, FMFP 2018–Paper No.739.
- S. R. Nikam and S. D. Sharma, “Mach number Effect on Aeroacoustic Characteristics of Compressible Jet due to Chevron”, Symposium on Applied Aerodynamics and Design of Aerospace Vehicle (SAROD-2018), 29-30 Nov & 1<sup>st</sup> Dec 2018, Bengaluru, organised by Aerodynamic Development Agency (ADA), CSIR National Aerospace Laboratory and Gas Turbine Research Engineering (GTRE)
- M. Patil , K. N. Patil and **S. R. Nikam**, “Energy Conservation and Targeting of Ammonia Decomposition Process in Steel Industry” 6<sup>th</sup> International conference on Advances in Energy Research 2017 at IIT Bombay, Dec 12-14 2017, Paper ID 184.
- S. R. Nikam and S. D. Sharma, “Effect of Chevron on Azimuthal variation of near field pressure fluctuations in compressible jet,” in 23<sup>rd</sup> AIAA/CEAS Aeroacoustics Conference, 5<sup>th</sup> to 9<sup>st</sup> June 2017, Denver USA. DOI: 10.2514/6.2017-3863
- S. Patil and S. R. Nikam, “Effect of Turbulence model and wind velocity on Aerodynamic Performance of Wind Turbine Blade,” ICR CET 2016 organized by SIETK, Puttur India.
- S. R. Nikam and S. D. Sharma, “Aero-acoustic Characteristics of Compressible Jet from Chevron Nozzle,” *AIAA Paper-2014-2623*, DOI: 10.2514/6.2014-2623.
- S. R. Nikam and S. D. Sharma, “Near field acoustic characteristics of notched elliptical nozzle at  $M = 0.6$ ,” 16<sup>th</sup> International conference on Methods of Aero-Physical Research, 2012, 18-26<sup>th</sup> August 2012, Kazan, Russia.
- Chintak Parashar and S. R. Nikam, “Thermal Analysis of Heat Sink for Electronic Devices,” International Conference on Emerging Trends And Research In Engineering at Navasahyadri Group of Institute, Pune, during 23-25<sup>th</sup> March 2017

- **NATIONAL CONFERENCE**

- S. R. Nikam and S. D. Sharma, “Effect of Chevron Nozzle Penetration on Mixing Characteristics of High Subsonic Jet,” 44<sup>th</sup> National Conference on Fluid

Mechanics and Fluid Power held at Amrita University, Kollam, Kerala, India, paper ID 39, 14-16<sup>th</sup> Dec. 2017

- S. R. Nikam and S. D. Sharma, “Effect of Chevron on Mixing Characteristics of Compressible jet,” 40<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power held at NIT Hamirpur, HP, India, paper ID 144, 12-14<sup>th</sup> Dec. 2013.
- S. R. Nikam, “Object Oriented Modeling of the Design Process,” National conference on Sun Rising Technologies (NCSRT-05) held at Parshvanath College of Engineering Thane, on 18-19, November 2005.

### **STTP/Workshop/organised & Lecture delivered:**

- Lecture delivered on “Fuel supply and Performance of Internal Combustion Engine” in short term training program on “Internal Combustion Engine and Vehicle Dynamics: Theoretical and Practical Approaches” at K. J. Somaiya College of Engineering during 20<sup>th</sup> to 21<sup>st</sup> October 2018.
- **Organized** one week ISTE/AICTE approved short term training program on “Advances in Fluid Dynamics: Experimental and Computational Approaches” at K. J. Somaiya College of Engineering during 1<sup>st</sup> to 5<sup>th</sup> January 2018.
- Lecture delivered on “Jet Noise” in ISTE/AICTE approved short term training program on “Advances in Fluid Dynamics: Experimental and Computational Approaches” at K. J. Somaiya College of Engineering during 1<sup>st</sup> to 5<sup>th</sup> January 2018.
- **Organized** one day workshop on “Rapid prototyping & its application” in April 2007 at Parshvanath College of Engineering.

### **Training Details:**

- Attended QIP course on “Stealth Technology” at IIT Bombay, Mumbai in Nov 2019
- Attended QIP course on “Laboratory and Ergonomic Safety for Engineers” at IIT Bombay, Mumbai from 11<sup>th</sup> -15<sup>th</sup> June 2018.
- Attended AICTE-ISHRAE sponsored one week refresher course on “Refrigeration and Air Conditioning” at C. O. E. P. Pune from 26<sup>th</sup> -30<sup>th</sup> June 2017.
- Attended GIAN (Global Initiative for Academic Network) course on “Acoustics and Industrial Noise Control” at IIT Kharagpur from 15-19<sup>th</sup> May 2017.
- National workshop on “Faculty Development Program under ISTE chapter of P.C.O.E. Thane held on 9<sup>th</sup> and 10<sup>th</sup> January 2007.
- Attended and worked as session co-chair in International conference on “Advances in Manufacturing and Technology Management” organized by Parshvanath college of Engineering, Thane in Jan 2007.

- Attended National conference on “Rapid Prototyping and its application” at VNIT Nagpur in March 2006.
- Attended preconference workshop on “Rapid Prototyping” at VNIT Nagpur in March 2006.
- ISTE approved short term course titled “Enabling Technologies and Technology Driven Practices for Accentuating Value Chain Management” from held at S.P.C.O.E. Andheri, Mumbai, 9<sup>th</sup> May to 3<sup>rd</sup> June 2005
- One day national workshop on “Technical writing and Presentation Skills” conducted by P. C. O. E. Thane, 2004.
- AICTE sponsored two week “Technical Teachers Empowerment Programme” held at V.N.I.T. Nagpur in July 2004.
- One month Inplant Training in “Ispat Industry LTD. Nagpur” in 1996.

### **Scholarship and awards:**

- Travel grant awarded by University Grant Commission (UGC), New Delhi to attend 20<sup>th</sup> Aeroacoustics International conference at Atlanta USA in year 2014.
- Travel grant awarded by Science and Engineering Research Board (SERB), New Delhi to attend 25<sup>th</sup> Aeroacoustics International conference at TU Delft Netherland in year 2019.(Did not availed)

### **Extracurricular:**

- Participated in Innovation 1998 (project competition) Organized by IES Nagpur
- Qualified in GATE 2000 with percentile 77.07%
- Life Member of Indian Society of Technical Education (ISTE) LM 47925
- Life Member of National Society of Fluid Mechanics and Fluid Power (NSFMFP) LM 687
- Life Member of Acoustic Society of India LM 939
- Member of ISHRAE society Membership number 56524