

Curriculum Vitae

Dr. Hemant Jayantilal Nagarsheth (B.E., M.Tech, Ph.D.)

Professor, Mechanical Engineering Department,

Sardar Vallabhbhai National Institute of Technology (SV NIT),

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Educational Qualifications

Degree	Year	Institute / University
Ph.D. (Mechanical Engineering)	2006	SVNIT , Surat
M. Tech. (Mechanical Engineering)	1987	SVNIT , Surat
B. E. (Mechanical Engineering)	1978	Bombay University

Experience

Total experience: 45 years

Industrial experience : 5 years

Academic experience: 40 years and ongoing

Administrative experience 8 years
(SVNIT as Professor): *(5 years : Dean (Faculty Welfare), 3 years: Head of the Department – Mechanical and I/C Director, I/C Registrar)

Details of experience

Organization	Location	Post held/ Functioning	Nature Of Work
1. New Standard Engineering	Goregaon, Mumbai	Sales Executive	Sales of Printing Machineries Shot Blasting & Shot Peening Machines Export and Import of Items.
2. Crompton Greaves Ltd.	Kanjur Marg, Mumbai	Maintenance Engineer	Maintenance of large motors, Stators and Rotors, Winding Machines, Pumps , Compressors, Fork Lifts, EOT's, Electrostatic Spray Painting Plant, Boring Machines, Special Purpose Machines etc.
3. Premier Automobiles Ltd.	Kurla, Mumbai	Design Engineer	Design and Development of Gear Shifting Arrangement for 118 NE car .
4. Himson Textile Engg. Ltd	Surat, Gujarat	Sales Executive	Sales of Spares for Texturising Crimping and Twisting Machines along with maintenance.
5. Govt. Engg. College	Majura Gate, Surat, Gujarat	Lecturer	Teaching
6. SVR CET (now SVNIT)	Ichchhanath, Surat, Gujarat.	Asst. Professor	Teaching and Research
7. SVNIT	Ichchhanath, Surat, Gujarat.	Asso. Professor	Teaching and Research
8. SVNIT	Ichchhanath, Surat, Gujarat.	Professor	Teaching and Research

Academic & Administrative Positions Held:

1. **I/C Director**, Sardar Vallabhbhai National Institute of Technology (SVNIT)
Tenure: 12 times with a total period of 43 days officially.
2. **I/C Registrar**, Sardar Vallabhbhai National Institute of Technology (SVNIT)
Tenure: 20 times with total period of 2 months officially.
3. **DEAN (Faculty Welfare) – SVNIT**
Tenure 1st: 2011 – 2014 (3 years 20 days)
Tenure 2nd: 2017 – 2019 (1 year 9 months)
4. **Head of the Department (Mechanical Engineering)**
Tenure: 2014 – 2017 (3 years)
5. **I/C HOD** – 4 months (1/2008 to 5/2008)
6. **Professor, Mechanical Engineering – SVNIT**
Tenure: From 2006 – Till Date (14 years till date and ongoing)

Institute & Departmental Positions Held:

1. Chairman, **Recruitment Committee (Asst. Prof., Asso. Prof., Prof.)**
2. Chairman, **Unnat Bharat Abhiyan (UBA)**
3. Chairman, **Medical Advisory Committee, SVNIT (2011 - 2019)**
4. Chairman, **Scrutiny Committee (Teaching posts)**
5. Chairman, **Institute level Cadre wise seniority list Committee**
6. Chairman, **Recruitment Committee (Teaching Assistants)**
7. Co-ordinator, **Examinations (SVNIT as well as during REC period) (6 years)**
8. **PG In charge** (Mechanical Engineering Department)
9. Section In charge – Design and Dynamics
10. **Laboratory In charge** - Robotics lab, ICAE lab.
11. Carried out Accreditation thrice, Academic Audit, Exam co-ordinator, CAD lab development, Automobile lab development.

Areas of interest:

- **Automobile Engineering**
 - Developed Exhaust Based Car Air- Conditioning System
 - Production and Application of biogas to Automobiles and have successfully run a Maruti 800 cc car on bio gas.

- **Robotics and Bio-Mechanics**
 - Developed Anthropomorphic Upper Limb for Work Physiology Application with Govt. Medical College Surat.
 - Developed Low- Cost Upper Limb (Wrist , Elbow and Shoulder) as retrofit to the physically Impaired
 - Developed Software that can Design Tailor made Knee Implants (accepted by a practising Doctor in Vadodara)
 - Presently Working on TSF (Tailor Spatial Frame) with application to Ilizarov Technique for Bone Fracture and filed a patent.

Publications: (See [Annexure I](#))

- Journal Publications: **14**
- Conference Publications: **32**
- Book Chapters: **3**

Memberships:

- ISTE-Indian Society For Technical Education
- IBA- Indian Biogas Association

Consultancy & Projects:

Consultancy:

- **Shriram Paper Mills (Kadodra, Gujarat)**
Increasing the capacity of paper roll holder and improving its braking Capacity

- **Gujarat Samachar Newspaper Surat**
Redesigning Paper Folding Mechanism

- **Alidara Textiles Manufacturers**
Redesigning Gearbox for Twisting Machines
- **SUDA (Surat Urban Development Agency)**
Waste Handling Equipments Inspection - Design and Testing
- **Daman Underground Sewerage Project**
Third Party Inspection & Monitoring
- **Sewage Treatment Plant Bhatar**
Third Party Inspection & Monitoring

Projects:

1. **Title:** Development of all season Biogas Digester
Funding agency: SVNIT, **Investigator:** Dr. H. J. Nagarsheth.
Outcome: 1 – PhD thesis completed, 1- Patent filled (at advance stage of grant), 1 – international journal paper and 2 – international conference papers. They are listed below:
 - (i) **Name of Inventors:** Rishi Pareek, **Hemant J. Nagarsheth,**
Topic: The Unique Process for Efficient Biogas Production in All Season at IPR Head Office, Mumabi; **Docket No. 23466, Application No. 4209/MUM/2015**
 - (ii) Rishi Pareek, **Hemant J. Nagarsheth,** “Parametric Comparison and Performance Evaluation of FRP and HDPE type Biogas Digesters”, **Journal of Clean Energy Technologies;** Vol. 4, No. 5; - ISSN: 1793-821X, 2015.
 - (iii) “Biogas Technology: A case study on status, prospects and constraints”, International Conference on Industrial Engineering (**ICIE-2013**) on 22-23 November, SVNIT Surat, Gujarat, 2013.
 - (iv) “Experimental Study on C.I. Engine using Raw Biogas”, International Conference on Alternative Fuels for I. C. Engines (**ICAFICE**) on 6-8 February; MNIT , Jaipur , Rajasthan, 2013.
2. **Title:** Development of Solar Powered Electrical Vehicles
Funding agency: SEERS, **Amount:** 2.50 lacs,
Investigators: Dr. Salim Channiwalla & **Dr. H. J. Nagarsheth.**
*First attempt in the institute to develop solar powered electric vehicle.
3. **Title:** Centre for Robotics & Artificial Intelligence
Funding agency: AICTE, **Amount:** 10 lacs,

Investigators: Dr. Salim Channiwala & **Dr. H. J. Nagarsheth.**

*Robotics lab developed under COE

Outcome: Utilized by P.G. and PhD as well as project students.

4. **Title:** Development of Robotic Arm

Funding agency: SVNIT, **Investigator:** Dr. H. J. Nagarsheth

Outcome: 1 –PhD Thesis completed, several M. Tech Thesis completed, 4- papers published.

- (i) Anil Gillawat, **H. J. Nagarsheth**, “Development & Control of Human Upper Limb 10 DOF R-Type Kinematic Model Using Matrix Approach”, *Journal of Physics* 1240, 012025-1 to 012025-10, 2019.
- (ii) Anil Kumar Gillawat, **Hemant J. Nagarsheth**, Mansi Nagarsheth, and H.D. Desai, “Development of RRR Type Anthropomorphic Shoulder Joint Model and its Dynamics”, *Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering 2012, WCE 2012*, 4-6 July, 2012, London, U.K., Vol. 2199, Issue 1, pp. 1692-1696. **ISSN:** 20780958.
- (iii) Savsani Poonam, **Hemant Nagarsheth**, “Trajectory Planning of 3R Robotic Arm Using Genetic Algorithm (GA) And Artificial Bee Colony (ABC) Optimization Methods”, *ASME 2010 Early Career Technical Journal*, Vol. 9, pp. 138-145.
- (iv) Anil K. Gillawat & **Hemant J. Nagarsheth**, “Human Upper Limb Joint Torque Minimization Using Genetic Algorithm”, In: Kumar H., Jain P.K. (Ed.) *Recent Advances in Mechanical Engineering*, part of *Lecture Notes in Mechanical Engineering*, pp. 57-70, 2020.

5. **Title:** Adoption of Village for Serving Clean Biogas for Cooking and Electrification

Funding agency: Unnat Bharat Abhiyan (UBA), **Principal Investigator:** Dr. H. J. Nagarsheth. (Ongoing in the institute).

6. **Title:** Development of human upper limb

Funding: ICMR Investigators: Dr. Mansi Patel, Dr. Dharitri Parmar of Government Medical College (GMC), Surat.

***This project was supported by myself and has been acknowledged.**

Outcome:

- (i) Dharitri Parmar, Mansi Patel, **Hemant Nagarsheth**, “Modelling Of Artificial Human Upper Limb”, *National Journal of Physiology, Pharmacy*

and Pharmacology, Vol.3, Issue No. 1, pp. 21-26, 2013. doi: 10.5455/njppp.2013.3.21-26. (Citation: 3)

- (ii) **Dr. Hemant J. Nagarsheth**, Poonam V. Savsani, and Dr. Mansi A. Patel, “Modeling and Dynamics of Human Arm”, 4th IEEE International Conference on Automation Science and Engineering, Washington DC, USA, August 23-26, 2008, pp. 924-928. (Citation: 16)
- (iii) **H. J. Nagarsheth**, S. V. Surve and M. A. Patel, “Computer Simulation of Dynamics of Human Leg”, in Proceedings of the 3rd Annual IEEE Conference on Automation Science and Engineering, 2007, pp. 249-254. (Citation: 4)

PhD Supervised (4 - Soul Supervisor, 1 – Co-Supervisor)

1. Manan Desai (D06ME005), “Evolution of an Inventive Configuration and Vertical Dynamical Investigations of a Concept Hybrid Car ADRENe”, SVNIT, Surat, 2013 (Co-Supervision).
2. Rishi Pareek (DS12ME), “Development and Analysis of Small Biogas Digester for Efficient Production”, SVNIT, Surat, 2017 (Single Supervision).
3. Divyang Shah (D10ME001), “Enhancing Potential of Biogas for its Application as a Fuel for Internal Combustion Engines”, SVNIT, Surat, 2018 (Single Supervision).
4. Dipak Gosai (D11ME002), “Perfromance Evaluation of Twin Cylinder Four Stroke Diesel Engine Under Adiabatic Condition with Thermal Barrier Coatings”, SVNIT, Surat, 2018 (Single Supervision).
5. Anil Gilawat (D11ME017), “Mathematical Modelling, Analysis and Optimisation of Human Upper Limb Extremities”, SVNIT, Surat, 2020 (Single Supervision).

M. Tech and B. Tech Supervised:

Total: 34 M. Tech Thesis supervised, 25 U.G. Projects supervised and ongoing till date.

Publications (Annexure I)

Patents:

Sr. no.	Title of the Patent	Inventors	Application number	Year	Status
1.	The unique process for efficient production of Biogas in all seasons	Rishi Pareek(Student) Dr. H. J. Nagarsheth	4209/MUM/2015	2015	Under advance examination stage (Published in The Official Journal of the Patent Office)
2.	A novel spherical joint for TSF (Taylor Spatial Frame)	Dr. H. J. Nagarsheth Anil Mahato	201821006060	2018	Under advance examination stage (Published in The Official Journal of the Patent Office)
3.	Domestic Overhead water tank probe based water monitoring system	Shaival Nagarsheth Dr. H. J. Nagarsheth	201821008021 A	2018	Under advance examination stage (Published in The Official Journal of the Patent Office)

Journal Publications:

Sr. No.	Title
1	Anil Kumar Gillawat and Hemant Jayantilal Nagarsheth “Development & Control of Human Upper Limb 10 DOF R-Type Kinematic Model Using Matrix Approach” Journal of Physics 2019,2019 <i>J. Phys.: Conf. Ser.</i> 1240 012025 https://doi.org/10.1088/1742-596/1240/1/012025
2	Manan Desai, S.A. Channiwala and H.J. Nagarsheth , “Simulative predictions and analysis of vehicle dynamical responses”, <i>Int. J. Engineering Systems Modelling and Simulation</i> , Vol. 7, No. 3, 2015 213, 2015.
3	Manan Desai, S. A. Channiwala, H. J. Nagarsheth , “Experimental and Computational Aerodynamic Investigations of a Car”, WSEAS Transactions on Fluid Mechanics, Issue 4, Volume 3, October 2008, pp. 359-368.
4	Manan Desai, S.A. Channiwala. and H.J.Nagarsheth “A Comparative Assessment of Two Experimental Methods for Aerodynamic Performance Evaluation of a Car”, Journal of Scientific and Industrial Research, Vol-67, July 2008, pp.518-522
5	Shaival H. Nagarsheth, Utpal Pandya, Hemant J. Nagarsheth , “Control Analysis Tuning Methods for a Designed, Developed and Modeled Cross Flow Water Tube Heat Exchanger”,

	World Academy of Science, Engineering and Technology International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering Vol:8 No:12, 2014.
6	D.C.Gosai and H.J.Nagarsheth, “A comparative study on Low Heat Rejection Engine using two different TBC Materials”, Research Journal of Recent Sciences, Vol.5(ISC-2015), 60-70(2016), E-ISSN 2277-2502
7	Shah Divyang, Nagarsheth Hemant J. and Acharya Pradeep, “Purification of Biogas using Chemical Scrubbing and Application of purified Biogas as Fuel for Automotive Engines”, Research Journal of Recent Sciences, Vol.5(ISC-2015), 1-7 (2016), E-ISSN 2277-2502
8	Rishi Pareek and Hemant J. Nagarsheth, “Preparation Parametric Comparison and Performance Evaluation of FRP and HDPE Type Biogas Digesters”, Journal of Clean Energy Technologies, Vol.4,No.5, September 2016.
9	D.C.Gosai and Dr. H.J.Nagarsheth, “Exhaust Emission Evaluation of Copper Coated Diesel Engine,” International Journal of Science, Technology and Management, Volume no.04, Special Issue No.01, march 2015, ISSN(online): 2394-1537.
10	Dharitri Parmar, Mansi Nagarsheth, Hemant Nagarsheth , “Modelling Of Artificial Human Upper Limb”, National Journal of Physiology, Pharmacy and Pharmacology, Vol.3, Issue No. 1, pp. 21-26, 2013. doi: 10.5455/njppp.2013.3.21-26
11	Manan Desai, Salim Channiwala, Hemant Nagarsheth , “Vertical Dynamical Response Evaluations For A Vehicle Travelling Over A Bump”, International Journal on Mechanical & Automobile Engineering, Volume 21, Issue No. 01, 2012, pp. 52-58.
12	Chirag Trivedi, Hemant Nagarsheth , “Recent Developments and Advances in Automobile Space Conditioning Technology: A Review”, International Journal of Recent Trends in Engineering, Vol. 1, No. 5, May 2009, pp. 132-136.
13	Savsani Poonam, Dr. Hemant Nagarsheth , “Trajectory Planning of 3R Robotic Arm Using Genetic Algorithm(GA) and Artificial Bee Colony (ABC) Optimization Methods”, ASME Early Career Technical Journal, 2010 ASME Early Career Technical Conference, ASME ECTC, October 1-2, 2009, Atlanta, Georgia, USA
14	Stepanov Yu , GW Barsukov, AV Mikheev , Venkata Rao Ravipudi , H J. Nagarsheth , “Modeling of Origin Cracks in Brittle Plate in Supersonic Interaction with Abrasive Particles”, Fundamental and applied problems of engineering and technology, 2007, pp. 86-91.

Conference Publications:

Sr. no.	Title
1	D.C. Gosai and Dr. H. J. Nagarsheth , “Experimental Study of effects on Combustion, Performance and Emission Characteristics of Computerized Twin cylinder LHRE coated with MgZrO ₃ Y,” International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)-2016.

2	D.C.Gosai and Dr. H. J. Nagarsheth , “Diesel Engine Cycle Analysis of Two Different TBC combustion Chamber” 3 rd International Conference on Innovation in Automation and Mechatronics Engineering 2016, Procedia Technology 23(2016) 504 -512, Science Direct.
3	Anilkumar Gillawat, Hemant J. Nagarsheth , Mansi H.Nagarsheth, Nirmal Kumar Kushwaha, “Kinematics and Dynamics of Four R-Type joint Anthropomorphic Finger,” XXV Congress of the International Society of Biomechanics, Scottish Exhibition and Conference Centre (SECC), 12 th -16 th July,2015, PO0230.
4	D.C.Gosai and Dr.H.J.Nagarsheth , “Noise and Vibration analysis of Adiabatic Diesel Engine,” Afro-Asian International Conference on Science, Engineerirng & Technology, AAICSET-2015, ISSN:9-780993-909238
5	D.C.Gosai and Dr.H.J.Nagarsheth , “Mgzro ₃ Ceramic Combustion Chamber for Improvement of S.I.Engine Performance and Emission Characteristics,” Afro-Asian International Conference on Science, Engineerirng & Technology, AAICSET-2015, ISSN:9-780993-909238.
6	D.C.Gosai and Dr.Nagarsheth H.J. “Performance and Exhaust Emission studies of an Adiabatic Engine with Optimum Cooling,” 2nd International Conference on Innovations in Automation and Mechatronics Engineering, ICIAME 2014.
7	Nagendra Atkuri, H.J.Nagarsheth and S.A.Channiwala, “Evaluation of Various Exhaust Based Alternative Air-Conditioning systems for Automobiles,” International Symposium on aspects of Mechanical Engineering and Technology for Industry (AMETI)2014, 6 th -8 th dec, 2014.
8	Ronak Shah and Dr. H. J. Nagarsheth , “Role of cad /cam for development of tailor made knee implant,” National Conference on Bio-Mechanical Science March 07-08, 2014, S’O’A University Bhubaneswar, India, NCBMS, 2014.
9	R. Pareek and Dr. H. J. Nagarsheth , “Experimental Study on C.I. Engine using Raw Biogas”, International Conference on Alternative Fuels for I. C. Engines (ICAFICE), 6-8 February 2013 at MNIT, Jaipur.
10	R. Pareek and Dr. H. J. Nagarsheth , “Biogas Technology: A case study on status, Prospects and constraints”, Proceedings of International Conference on Industrial Engineering (ICIE 2013), 20-22 November, 2013 at SVNIT, Surat, pp. 630-634.
11	Savsani Poonam, Dr. Hemant Nagarsheth , “Trajectory Planning of 3r Robotic Arm Using Genetic Algorithm(Ga) And Artificial Bee Colony (Abc) Optimization Methods ”, ASME Early Career Technical Journal, 2010 ASME Early Career Technical Conference, ASME ECTC, October 1-2, 2009, Atlanta, Georgia, USA.
12	V. M. Daiya, Dr. H. J. Nagarsheth , “Analysis of a Four Link Revolute Type Model Using Forward Kinematics and Geometric Approach”, Proceedings of the International Conference on Advances in Mechanical Engineering, August 3-5, 2009, SVNIT, Surat, pp. 757-761.
13	Dr.Hemant Nagarsheth , Chirag Trivedi, “Mathematical Modeling and Design Aspect of Non Isothermal Reactor”, Proceedings of the International Conference on Advances in Mechanical Engineering, August 3-5, 2009, SVNIT, Surat, pp. 75-79.

14	Chirag Trivedi, Hemant Nagarsheth , “Mathematical Modeling and Geometrical Study Of Scroll Compressor Used In Automobile Air Conditioning”, Proceedings of the International Conference on Advances in Mechanical Engineering, August 3-5, 2009, SVNIT, Surat, pp. 75-79.
15	Dr. Hemant J. Nagarsheth , Poonam V.Savsani, and Dr.Mansi A.Patel, “Modeling and Dynamics of human Arm”, 4 th IEEE Conference on Automation Science and Engineering, Washington DC, USA, August 23-26,2008.
16	Manan Desai, S.A.Channiwala, H.J.Nagarsheth , “Computational Validation of Experimental Aerodynamic Predictions of a Car.”, 6 th IASME / WSEAS International Conference on Fluid Mechanics and Aerodynamics (FMA’08), Rhodes, Greece, August 20-22,2008.
17	Madan Lal Chandravanshi, Dr. Hemant J. Nagarsheth , Mrs. Poonam Savsani, “Review on Kinematics of Finger Grippers” International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences (ICETAETS-2008) 13-14 January 2008 at Rajkot, Gujarat.
18	V. M. Daiya, Dr. H. J. Nagarsheth , “Lubrication Aspects of Newtonian & Non-Newtonian Fluids”, Proc. of the International Conference on Advances in Mechanical Engineering, 15-17 December, 2008, SVNIT, Surat, pp. 503-508.
19	H. J. Nagarsheth , S. V. Surve and M. A. Patel, “Computer Simulation of Dynamics of Human Leg”, in Proceedings of the 3rd Annual IEEE Conference on Automation Science and Engineering, 2007, pp. 249-254. USA .
20	Tushar N.Desai, H.J.Nagarsheth , Darshak A.Desai, “Integrated Use of Quality Function Deployment & Value Analysis Tools In The Product Design Process,” 10 th Annual Conference of Operation Management at IIM, Ahmedabad, Dec.21-23,2006.
21	Iyer Rajesh C., Gohil Pankaj, Nagarsheth Hemant J. and Channiwala S. A., “Development of a Vapor Compression Air Conditioning System Utilizing The Waste Heat Potential of Exhaust Gases in Automobiles”, 2005 SAE International Conference on “Future Transportation Technology, Chicago, Illinois”, USA, Sept. 6-9, 2005, Paper No. SAE 2005-01-3475.
22	T. N. Desai, H.J.Nagarsheth , “Quality Improvement Through 5-S Campaign-A case Study”, Proceedings of the National Conference on Emerging Trends in Mechanical Engineering, Padre Conceicao College of Engineering, Goa, Sept. 10-12, 2004.
23	H. J. Nagarsheth and T. N. Desai, “Application of Techniques of TQM to Industrial Activities as a Case Study”, National Conference on “Challenges in Achieving in Global Quality”, May 24-25, 2004, Thiagarajar College of Engg., Madurai, Tamilnadu.
24	Hemant J. Ngarsheth and Prashant U.Nair, “Robot Interfacing with ARDIC”, Proceedings of the International Conference on Manufacturing, ICM 2002, 09-11 August, 2002 Dhaka, pp 254-260.
25	Nagarsheth, H. J. and Channiwala S. A. “Development of an Automobile Exhaust Driven Air Conditioning System for a Car”, Proceedings of 4 th International Conference on Mechanical Engineering, [ICME-2001], DHAKA ,26-29 Dec. 2001,pp 254-260.

26	H.J.Nagarsheth and R.C.Iyer, “Design and Development of an Exhaust Gas Based Turbo Booster to run the compressor of an A/C in an Automobile”, Proceedings of National Conference on Advanced Trends in Mechanical Engineering Research and Development (MINAC-2000), JNTU college of Engineering, A.P., India, June 22-23, 2000.
27	Mahesh Darji and Hemant Nagarsheth , “SHE-1 Super High Speed Electroless Nickel Plating Process”, International Conference on Maintenance, Inspection, Corrosion, Materials, Engineering & Plant Reliability, MICMEP -99, 5 th Feb, 1999. IIM- Baroda.
28	M.N. Darji and H.J. Nagarsheth , “High Speed Electroless Nickel Plating Process”, Seventh National Congress on Corrosion Control, September 17-19, 1997 Hyderabad, p35.
29	T.N.Desai & H.J.Nagarsheth , “Work Sampling – A Case Study”, Abstracts of Paper 42 nd Congress ISTAM (28-31 Dec 1997), S.G.U., Surat.
30	Hemant.J.Nagarsheth and K.B.Rathod, “Development of Selective Compliance Assembly”, Abstracts of Paper 42 nd Congress ISTAM (28-31 Dec 1997), S.G.U., Surat.
31	H.J.Nagarsheth , “ Eccentric Turning Through Attachment”, Proceedings of ISTAM, Vishakhapatnam, Dec. 27-30, 1994
32	H.J.Nagarsheth and H.K.Raval, “computer Aided design And Drafting of CAM For Single Spindle Automat”, Proceedings of International Conference on CAD, Cam, Robotics and Autonomus Factories (INFARC-93), IIT Delhi.

Book Chapters:

Sr. No.	Title
1	Chirag Trivedi & Hemant J. Nagarsheth , “Mathematical Modeling of Scroll Compressor Used in Automobile Space Conditioning”, In: Mahadevan V. (Ed.) Mechanical and Electronics Engineering, pp. 309-312, 2010
2	Anil K. Gillawat & Hemant J. Nagarsheth , “Human Upper Limb Joint Torque Minimization Using Genetic Algorithm”, In: Kumar H., Jain P.K. (Ed.) Recent Advances in Mechanical Engineering, part of Lecture Notes in Mechanical Engineering, pp. 57-70, 2020.
3	Anil Kumar Gillawat, Hemant J. Nagarsheth , Mansi Nagarsheth, and H.D. Desai, “Development of RRR Type Anthropomorphic Shoulder Joint Model and its Dynamics”, In: Ao. S. I. <i>et al.</i> (Ed.) Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering 2012, WCE 2012, 4-6 July, 2012, London, U.K., pp. 1692-1696.

Outreach Activities:

Sr. no.	Activity	Organization
1	Member, Board of Studies	The Maharaja Sayajirao University (MSU) Baroda
2	Member, Board of Studies	Faculty of Agricultural engineering and Technology, Sardarkrushinagar, Dantiwada, Agricultural University.
3	Member, Board of Studies	Bhagwan Mahavir College of Engineering & Technology
4	Member of Interview Board for Faculty recruitment	NIT Warangal
5	Member of Interview Board for Principal/Director recruitment	Bhagwan Mahavir Polytechnic
6	Member of Interview Board for Principal/Director recruitment	Mahavir Swami College of Polytechnic
7	Member of Interview Board for Principal/Director recruitment	Mahavir Swami College of Engineering and Technology
8	Member of Interview Board for Assistant Professor	Mahavir Swami College of Engineering and Technology in Automobile branch
9	Member of Interview Board for Head of Department	Bhagwan Mahavir Polytechnic in Mechanical branch
10	Selection Committee member for Asst. Prof.	Shri S'ad Vidya Mandal, Bharuch
11	Selection Committee member for Professor/Associate Professor/ assistant Professor	Shri S'ad Vidya Mandal, Bharuch
12	Selection Committee member for Principal	Shri S'ad Vidya Mandal, Bharuch
13	Selection Committee member for Asst. Prof.	Shri S'ad Vidya Mandal, Bharuch
14	Invited Talk Delivered	Rotary Club of Surat Topic: Future of Robotics in Everyday Life

15	PhD thesis External Examiner	NIT Warangal (PhD thesis of Rama Krishna Varsi of DRDO)
16	PhD thesis External Examiner	NIT Warangal (PhD thesis of Ravishankar Hota)
17	PhD thesis External Examiner	Chhattisgarh Swami Vivekanand Technical University, Bhilai, Newai, Durg, Chhattisgarh
18	PhD thesis External Examiner	GITAM Institute of Management and Technology (Student Name: Gautam Edara)
19	PhD thesis External Examiner	GITAM Institute of Management and Technology (Student Name: P. Naveen)
20	PhD External Examiner as DPC member	Gujarat Technological University Student : Ragadia Sadiq Yaqub
21	PhD External Examiner as DPC member	Gujarat Technological University, Student : Mahida HirenKumar R.
22	Session Chair	International Conference on Industrial Engineering (ICIE 2011), SVNIT
23	Reviewer Committee member	2 nd International Conference on Recent Innovations & Technological Development in Mechanical Engineering (ICRITDME-2019)
24	As Reviewer	ICRADM2020: 1st International Conference on Resent Advancements in Design and Manufacturing,
25	As Reviewer	Tribology in Industry (Journal of the Serbian Tribology Society)

Dr. Hemant J. Nagarsheth

Professor, Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat – 395007, India.

Former **Dean (FW)** – SV NIT.

Former **Head of the Department (Mechanical)** – SV NIT.

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