

1. **Name** : Dr. Hiren G. Patel
2. **Highest Qualifications** : Ph.D, M.E (Electrical,Control Systems)
3. **Academic Performance** :
(High School to Highest Qualification)

Degree/Diploma	Division/Grade	Year	Specialization	Name of Institute
S. S. C.	First class with distinction	1995	-	Govt. School Silvassa
H. S. C.	First class with distinction	1997	-	Govt. School Silvassa
B. E./B. Tech.	First class with distinction	2001	Electrical and Electronics	UVCE, Bangalore.
M.E./M. Tech.	First class	2004	Control Systems	COEP, Pune.
Ph. D.	-	2014	Stochastic Control	SVNIT, Surat

4. **Work Experience** :
Serving as an Assistant Professor at S. V. National Institute of Technology since July 2007.

5. Area of Specialization

- Control Systems, Industrial automation with PLC programming, Stochastic Control, Sliding mode control, Adaptive control etc.

6. Achievements

- (1) No. of Publications :

International Journals :

- (1) Hiren G. Patel and Shambhu N Sharma, Third-order continuous-discrete filtering for a non-linear dynamical system, *The ASME (American Society of Mechanical Engineers) Transactions, the Journal of Computational and Nonlinear dynamics* (An SCIE Journal), 9(3), 2014.

<http://computationalnonlinear.asmedigitalcollection.asme.org/article.aspx?articleid=1783649>

- (2) Hiren G. Patel, and Shambhu N Sharma, Filtering for a Duffing-van der Pol stochastic differential equation, *Applied Mathematics and Computation* (An SCIE Journal), 226, 386-397, 2014.

<http://www.sciencedirect.com/science/article/pii/S0096300313010953>

- (3) Hiren G. Patel and Shambhu N. Sharma, Some evolution equations for an Ornstein-Uhlenbeck process-driven dynamical system, *Fluctuation and Noise Letters* (An SCIE Journal), 11(4), 125001-20, 2012.

<http://www.worldscientific.com/doi/abs/10.1142/S0219477512500204>

www.intechopen.com/books/statistics/stochastic-control/the-fokker-planck-equation

- 5) Hiren Patel, Mihir Raval, 'Implementation of closed loop control of flow in air blower system using PLC and SCADA', *Journal of control & Instrumentation*, 7(3), 39-43,2016

- 6) Bhavina J. Patel and Hiren G. Patel, 'Advanced Model Based Control Strategy for Dynamic Dose of Propofol', *International Journal of Control Theory and Applications*, International Science Press, 9(39), pp. 55-62, 2016.

International Conference

- Hiren G. Patel , Third-order Continuous-Discrete Filtering For a Stochastic Duffing System, *International Conference on Industrial Instrumentation and Control (ICIC)*, Collage of Engineering, Pune, India, May 28-30,2015.
- Y. P. Patil, H G Patel, Observer-Based Discrete-Time Sliding-Mode Control For Higher-Order Dynamic Delay-Time System, 14th International Conference on Control, Automation, Robotics & Vision Phuket, Thailand, 13-15th November, 2016.
- D. Y. Dube, H. G. Patel, Control Design of 3 DOF Helicopter System, 11th International Conference on Industrial & information Systems,IIT, Roorkee, 3-4 December, 2016.
- Hiren Patel, Mihir Raval, Closed Loop Control Of Flow Under The Influence Of Varying Temperature In Air Blower System Using PLC And VFD, Proceeding of International conference on Intelligent system and signal processing, Vallabh Vidyanagar, 23-25 March 2017.

Book Chapter

- S. N. Sharma and H. G. Patel, The Fokker-Planck equation, *Stochastic Control* (Chris Myers, Ed.), Sycio Science publisher, Vienna, Rizeka, August 2010, pp. 1-20.

6. Departmental and Institutional Responsibilities:

At present

- Cordinator of Control System laboratory
- Chief Warden, Gajjar Bhavan

In past

- Chief Warden, Bhabha Bhavan during July 2012- June 2014.
- Chief Warden, Sardar Bhavan from October 2011 to July, 2012.
- Member, Department Time Table Committee, from December 2009 to July 2013.
- Member, Department Purchase committee from July 2011 to October 2013.
- Faculty Advisor, B.Tech III (Electrical)

(Dr. Hiren G Patel)