

## RESUME

### **Dr. MITESH B. ASTIK**

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Presently working as an Assistant Professor in A.D. Patel Institute of Technology, New V.V. Nagar, Gujarat, India. Total 16 Years of Teaching experience.

### **EDUCATION QUALIFICATION**

Degree	Subject	University	Year
Ph. D.	Electrical Machines	CHARUSAT, Changa, Gujarat, India	2021
M. E.	Control Systems	VJTI, Mumbai University, Mumbai, India	2006
B. E.	Electrical Engineering	Sardar Patel University, Gujarat, India	2003
Diploma	Electrical Engineering	BPTI, Technical Education Board, Gujarat, India	2000

### **WORK EXPERIENCE**

❖ **A.D. Patel Institute of Technology, New Vallabh Vidyanagar, Gujarat, India**

August 2008 – Present: Assistant Professor

❖ **Bharati Vidyapeeth College of Engineering, Navi Mumbai, Maharashtra, India**

14<sup>th</sup> December 2007- 31<sup>st</sup> July 2008: Lecturer (Probation)

7<sup>th</sup> June 2007 – 13<sup>th</sup> December 2007: Lecturer (Adhoc)

❖ **Veer mata Jijabai Technological Institute (VJTI), Mumbai, India**

14<sup>th</sup> July 2006 - 6<sup>th</sup> June 2007: Contractual Lecturer

4<sup>th</sup> July 2005 – 31<sup>st</sup> May 2006: Contractual Lecturer

### **RESEARCH AREA**

❖ Electrical Machines, Control Systems, Power Electronics

## ACHIEVEMENT

- ❖ Qualified in GATE 2003 conducted by IIT, Chennai with 94.64 percentile and All India Rank 963 in Electrical Engineering discipline.

## TEACHING ENGAGEMENT

Title	Course Code	Class Name
Electrical Machine-I	3140913	B. E. (Second Year)
Electrical Machine-II	3150910	B. E. (Third Year)
Control System Theory	3130905	B. E. (Second Year)
Industrial Electrical System	3170920	B.E. (Fourth Year)
Electrical Engineering Materials	3160923	B.E. (Third Year)
Basic Electrical Engineering	3110005	B.E. (First Year)

## ADMINISTRATIVE DUTIES

- ❖ Mukhyamantri Yuva Swavalamban Yojana (MYSY) coordinator of the college.
- ❖ Departmental GTU Coordinator
- ❖ Departmental CVM University Coordinator
- ❖ Electrical Machine Lab in charge
- ❖ Faculty Advisor of 2008, 2015 and 2020 batch students
- ❖ Internal Evaluator of NBA of A.D. Patel Institute of Technology
- ❖ ISO and NBA Departmental team member

## WORKED AS A COMMITTEE MEMBER

Worked as a committee member in one-week national level STTP on Recent Trends in Power Electronics and Its Application in Engineering held by Electrical Engineering Department, A.D. Patel Institute during 6<sup>th</sup> July to 10<sup>th</sup> July 2009.

## LIST OF PUBLICATIONS

### (i) International Journal

- **Mitesh B. Astik**, Dhruv B. Shah, Praghnes Bhatt, Bhavesh R. Bhalja and Paresh R. Modha, "Hardware implementation of interconnection and damping assignment passivity-based control for BLDC motor using microcontroller", COMPEL - The international journal for computation and mathematics in electrical and electronic engineering, June-2022. DOI 10.1108/COMPEL-10-2021-0367.

- **Mitesh B. Astik**, Praghnes Bhatt and Bhavesh R. Bhalja, “Bi-directional Position and Speed Estimation Algorithm for Sensorless Control of BLDC Motor”, *Journal of Electrical, Control and Communication Engineering*, Vol. 14. No. 2, pp. 125-133, Dec. 2018.
- **Mitesh B. Astik**, Praghnes Bhatt and Bhavesh R. Bhalja, “Analysis of sensorless control of brushless DC motor using unknown input observer with different gains”, *Journal of Electrical Engineering*, Vol. 68, No. 2, pp. 99–108, March 2017.
- **Mitesh B. Astik**, “Dynamic Modelling and Simulation of Five Phase Induction Motor”, *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol-4, Issue-4, pp. 1998-2005, April- 2015.
- **Mitesh B. Astik**, “Comparative Analysis of Approximate and Dynamic Model of Five Phase Induction Motor”, *International Journal of Electrical Engineering & Technology (IJEET)*, Vol-6, Issue-3, pp. 17-31, March- 2015.

#### (ii) National Journal

- **Mitesh B. Astik**, Praghnes Bhatt and Bhavesh R. Bhalja, “Effect of parameter variations on sensorless control of bldc motor using disturbance torque estimation”, *CHARUSAT Journal*, Vol. 2, no. 1, pp. 49-57, January 2020.

#### (iii) National Conference

- **Mitesh B. Astik** and Dharendra R. Mehta, “dq Modeling and Control of Five-Phase Induction-Motor under Asymmetrical Connections using MATLAB Simulation”, *National Conference Nucone – 2007, Nirma University, Ahmedabad*, pp. 13 – 17, Nov. - Dec. 2007.

#### (iv) Books & Magazines

- Bhavesh R. Bhalja, Ashesh M. Shah and **Mitesh B. Astik**, *Elements of Electrical Engineering*, Acme Learning Private Ltd., New Delhi, 2014.
- Minesh K. Joshi, Paresh Modha, Brijesh M. Patel, Jigar. Mistry and **Mitesh B. Astik**, “Managing 12 Pulse Converters”, *Electrical India Magazine*, September 2016.

### HONORARY SERVICE

- Reviewer for the IEEE Transaction on Power Electronics
- Reviewer for the Canadian Journal of Electrical and Computer Engineering, IEEE Canada

- Reviewer for the COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering

### **DETAILS OF WORKSHOP / SHORT TERM COURSE / ATTENDED**

- Attended online STTP on MATLAB based Teaching-Learning in Mathematics, Science & Engineering held by R.A.I.T., Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., Mumbai, 18th to 22nd April 2020.
- Attended Faculty development programme on Application of Scilab in Engineering held by ADIT in association with Spoken Tutorial, IIT Bombay during 25th to 30th March 2020.
- Attended Four weeks online workshop on Electric Utilities Fundamentals and Future held by University of Colorado System and offered through Coursera, April-May 2020.
- Attended Three weeks online workshop on Renewable Energy and Green Building Entrepreneurship held by Duke University and offered through Coursera, April-May 2020.
- Attended STTP on Theory and Hand-On Practice on Electrical Machines held by A.D. Patel Institute of Technology, New V.V. Nagar from 6<sup>th</sup> March 2017 to 10<sup>th</sup> March 2017.
- Attended STTP on Recent Trends in Advanced Electrical Machine held by L.D. College of Engineering from 30th December 2012 to 3rd January 2014.
- Attended STTP on Code Composer Studio and TMS320F28335 DSP Workshop held by Parul Institute of Engineering and Technology from 23rd December to 27th December 2013.
- Completion of Training on SAP-ABAP/4 held by Global Enterprise Infotech Solutions, Bangalore from August 2006 to October 2006.

### **MEMBER OF PROFESSIONAL BODY**

- ❖ Indian Society of Technical Education (ISTE) Membership No.: LM52776
- ❖ Institute for Engineers, India (IE India) Membership No.: M1578213

## PERSONAL PROFILE

**Date of Birth** : 28<sup>th</sup> March 1980  
**Father's Name** : Bhupatray N. Astik  
**Sex** : Male  
**Marital Status** : Married  
**Nationality** : Indian  
**Vernacular Skill** : English (Read, Write, Speak); Gujarati (Read, Write, Speak); Hindi (Read, Write, Speak)  
**Hobbies & Interest** : Watching Cricket Match, Listening Music.