

# CURRICULUM VITAE

**Dr. CHANDRASHEKHAR N. BHENDE**

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## EDUCATIONAL QUALIFICATION

Sr. No	Name of Exam.	Name of Institute	Year of Passing
1.	PhD	Electrical Engg. Deptt., IIT Delhi	2008
2.	M-Tech. (Integrated Power System)	Electrical Engg. Deptt., VNIT Nagpur (Formerly VRCE)	2003
3.	B.E. (Electronics & Power)	Nagpur University	1999

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## AREAS OF RESEARCH

Renewable energy, operation and control of micro-grid, power quality, active power filters, application of intelligent techniques.

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## EXPERIENCE

Sr. No.	Name of the Organization	Position held	Period of Working
1.	Indian Institute of Technology Bhubaneswar	Assistant Professor	Continuing from 29-01-2010
2.	Indian Institute of Technology Guwahati	Assistant Professor	31-12-2008 to 28-01-2010
3.	University of Wollongong, Australia	Post-Doctoral Research Fellow	15-06-2008 to 24-12-2008
4.	Microtek International Pvt. Ltd., Delhi	Sr. R & D Engineer	1-6-2007 to 31-12-2007
5.	Indian Institute of Technology Roorkee	Senior Research Fellow	7-11-2003 to 12-7-2004

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## SPONSORED RESEARCH PROJECTS

1. Title: Photovoltaic (PV) based grid-interactive and off-grid electricity system (Sponsored Agency: Joint Indo-Finish project sponsored by DST, India and Academy of Finland).
2. Title: Control of Stand-Alone hybrid “Solar-Diesel Generator-Battery” Power Supply System (Sponsored Agency: Department of Science and Technology, India)
3. Title: Classification of Switched Capacitor in the Distribution Network. (Sponsored Agency: IIT Bhubaneswar, India)

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## AWARDS AND HONORS

- Indo-Australia Science and Technology Fellowship, 2012-13.
- Honorary Adjunct Fellow, Victoria University for the period of April - July 2013.
- Innovative PhD Thesis Award 2009 given by the Indian National Academy of Engineering (INAE), India.

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## PUBLICATIONS

### 2015

- 1) C. Pradhan and **C. N. Bhende**, “Fuzzy based Primary Frequency Control of Wind Turbines”, Accepted for publication in *International Journal of Electric Power Components and Systems*.
- 2) C. Pradhan and **C. N. Bhende**, “Adaptive Deloading of Stand-Alone Wind Farm for Primary Frequency Control”, *Energy Systems (Springer)*, Vol. 6, No. 2, pp. 109-127, 2015.
- 3) A. Ghosh, S.G. Malla, **C.N. Bhende**, “Small-signal modelling and control of photovoltaic based water pumping system”, *ISA Transactions (Elsevier)*, 2015.

### 2014

- 4) **C. N. Bhende** and S. G. Malla, “Voltage Control of Stand-Alone “Photovoltaic-Diesel Generator-Battery” System”, The 40<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society, 29<sup>th</sup> Oct. 1<sup>st</sup> Nov. 2014, Dallas, USA.
- 5) S. G. Malla and **C. N. Bhende**, “Study of Stand-Alone Microgrid under the Condition of Faults on Distribution Line”, Accepted for publication in International Journal of *Emerging Electric Power System*, Vol. 15, No. 5, 2014.
- 6) S. G. Malla and **C. N. Bhende**, “Enhanced Operation of Stand-Alone ‘Photovoltaic-Diesel Generator-Battery’ System”, *Electric Power Systems Research (Elsevier)*, Vol. 107, pp. 250-257, Feb. 2014.

- 7) S. G. Malla and **C. N. Bhende**, "Voltage Control of Stand-Alone Wind and Energy System", *Electrical Power and Energy Systems (Elsevier)*, Vol. 56, pp. 361-373, March 2014.

## 2013

- 8) **C. N. Bhende** and Akhtar Kalam, "Power Quality Conditioner for Microgrid", Australasian Universities Power Engineering Conference (AUPEC), 29 Sep. – 3 Oct. 2013, Hobart, Australia.
- 9) C. Pradhan and **C. N. Bhende**, "Adaptive Deloading of Wind Generators for Primary Frequency Regulation", 5<sup>th</sup> International Conference on Computer Applications in Electrical Engineering-Recent Advances (CERA), 3<sup>rd</sup>-5<sup>th</sup> Oct. 2013, IIT Roorkee, India.

## 2012

- 10) S. G. Malla and **C. N. Bhende**, "Novel Control of Photovoltaic based Water Pumping System without Energy Storage", *International Journal of Emerging Electric Power Systems*, Issue 4, Vol. 13, 2012.

## 2011

- 11) **C. N. Bhende**, S. Mishra and S. G. Malla, "Permanent Magnet Synchronous Generator based Stand-Alone Wind Energy Supply System", *IEEE Transactions on Sustainable Energy*, Vol. 2, No. 4, pp. 361- 373, 2011.
- 12) **C. N. Bhende**, "S-Transform Technique for Identifying the Location of a Switched Capacitor", *International conference on Environment and Electrical Engineering (EEEIC)*, 8-11 May 2011, Rome, Italy.
- 13) **C. N. Bhende** and S. G. Malla, "A Stand-Alone Wind Energy System with Battery Storage", *International Conference on Power & Energy Systems and Applications*, 7-9 Nov. 2011, Pittsburgh, USA.
- 14) S. G. Malla and **C. N. Bhende**, "Photovoltaic Based Water Pumping System", *International Conference on Energy, Automation and Signal (ICEAS)*, 28-30 Dec. 2011, Bhubaneswar, India.

## 2009

- 15) **C. N. Bhende**, Stand-Alone Wind Energy Supply System, 3<sup>rd</sup> International Conference on Power Systems, Dec. 2009, IIT Kharagpur, India.

## 2008

- 16) S. Mishra, **C. N. Bhende** and B. K. Panigrahi, "Detection and Classification of Power Quality Disturbances Using S-Transform and Probabilistic Neural Network", *IEEE Transactions on Power Delivery*, Vol. 23, No. 1, pp. 280- 287, Jan. 2008.

- 17) **C. N. Bhende**, S. Mishra and B. K. Panigrahi, "Detection and Classification of Power Quality Disturbances using S-Transform and Modular Neural Network", *International Journal of Electric Power Systems Research (Elsevier)*, Vol. 78, Issue 1, pp. 122-128, Jan. 2008.
- 18) B. Santosh Kumar, S. Mishra, **C. N. Bhende** and M. S. Chauhan, "PI Controller based Frequency Regulator for Distributed Generation", *International Conference IEEE TENCON 2008*, Nov. 18 - 21, 2008, Hyderabad, India.
- 19) **C. N. Bhende**, S. Mishra, "An Integrated Approach of Wavelet-Rough Set Technique for Classification of Power Quality Disturbances", *International Conference ICHQP 2008*, Sept. 28 - Oct. 1, 2008, Wollongong, Australia.

## 2007

- 20) S. Mishra and **C. N. Bhende**, "Bacterial Foraging Technique based Optimized Active Power Filter for Load Compensation", *IEEE Transactions on Power Delivery*, Vol. 22, No. 1, pp. 457- 465, Jan. 2007.

## 2006

- 21) **C. N. Bhende**, S. Mishra and S. K. Jain, "TS-Fuzzy-Controlled Active Power Filter for Load Compensation", *IEEE Transactions on Power Delivery*, Vol. 21, No. 3, pp. 1459- 1465, July 2006.
- 22) **C. N. Bhende**, M. K. Mishra and H. M. Suryawanshi, "A DSTATCOM Modeling, Analysis and Performance for Unbalanced and Non-Linear Load", *Journal of Institution of Engineers India (EL)*, Vol. 86, pp. 297-304, March 2006.
- 23) S. Mishra, **C. N. Bhende** and L. L. Lai, "Optimization of Distribution Static Compensator by Bacterial Foraging Technique", *International Conference ICMLC-2006*, Aug. 13-16, 2006, Dalian, China.

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## ACADEMIC ADMINISTRATIVE ACTIVITIES

Handled the responsibility as Prof.-in-Charge, Career Development Cell, IIT Bhubaneswar from 2010 to 2012 and From May 2014 to till date.

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## EXTRACURRICULAR ACTIVITIES

Served as member of "National Social Service (NSS)" from 1998 to 1999.

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## ANY OTHER INFORMATION

- Total Citation of my all research papers is **735** (Ref.: Scopus)
- One of my papers (i.e., No. 7) was among the most downloaded/viewed papers in the international journal of Electrical Power and Energy Systems (Elsevier).

- Participated to the Session 'The impact of Engineering to Global Sustainability' in 4<sup>th</sup> Indo-German Frontiers of Engineering (INDOGFOE) Symposium held in Halle- Merseburg, Germany from 13-16th June, 2012.

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#### PERSONAL PROFILE

**Permanent Address:** 368, Guruprasad Nagar, Dattawadi, Nagpur, Maharashtra, India.

Pin: 440023; Phone: +91-7104 -222380

**Date of Birth:** 5<sup>th</sup> August 1977

**Gender:** Male

**Languages:** English, Hindi and Marathi

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**I declare that all information provided with this application is true to the best of my knowledge and belief.**

**Dr. CHANDRASHEKHAR N. BHENDE**